

CEE

— PLUGS AND SOCKETS —



WALTHER-WERKE

— FORTSCHRITT SEIT 1897 —

CEEtyp PLUGS AND SOCKETS



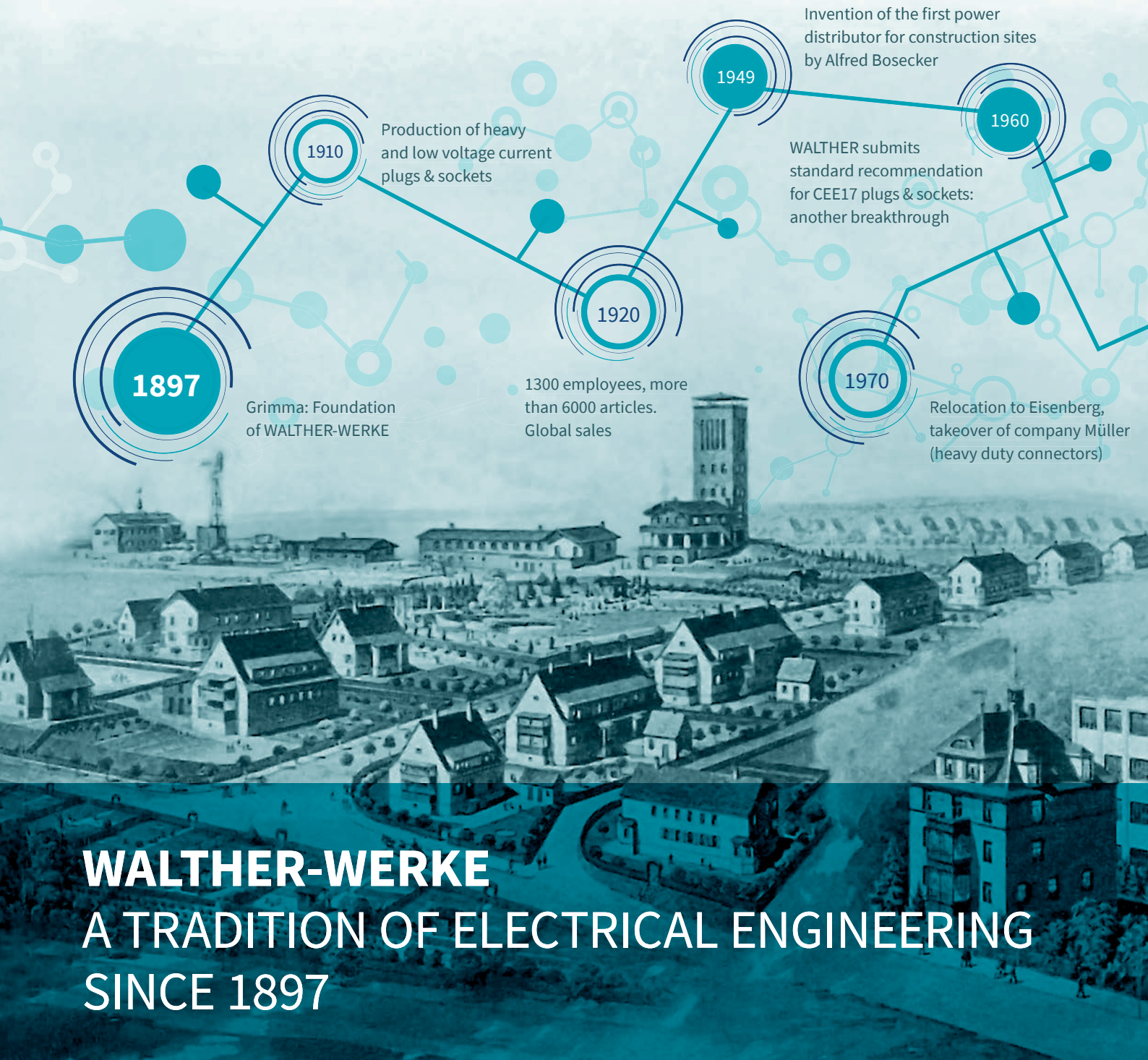
The indicated extracts out of standards are for your information but without any liability. In case of doubt please refer to the complete original standard or regulation. The quotations from standards are hints where to get additional information on a specific topic.

We reserve the right for technical changes. The information specifies the products but does not guarantee any properties.

Update: www.walther-werke.de

For prices please refer to our current trade price list.

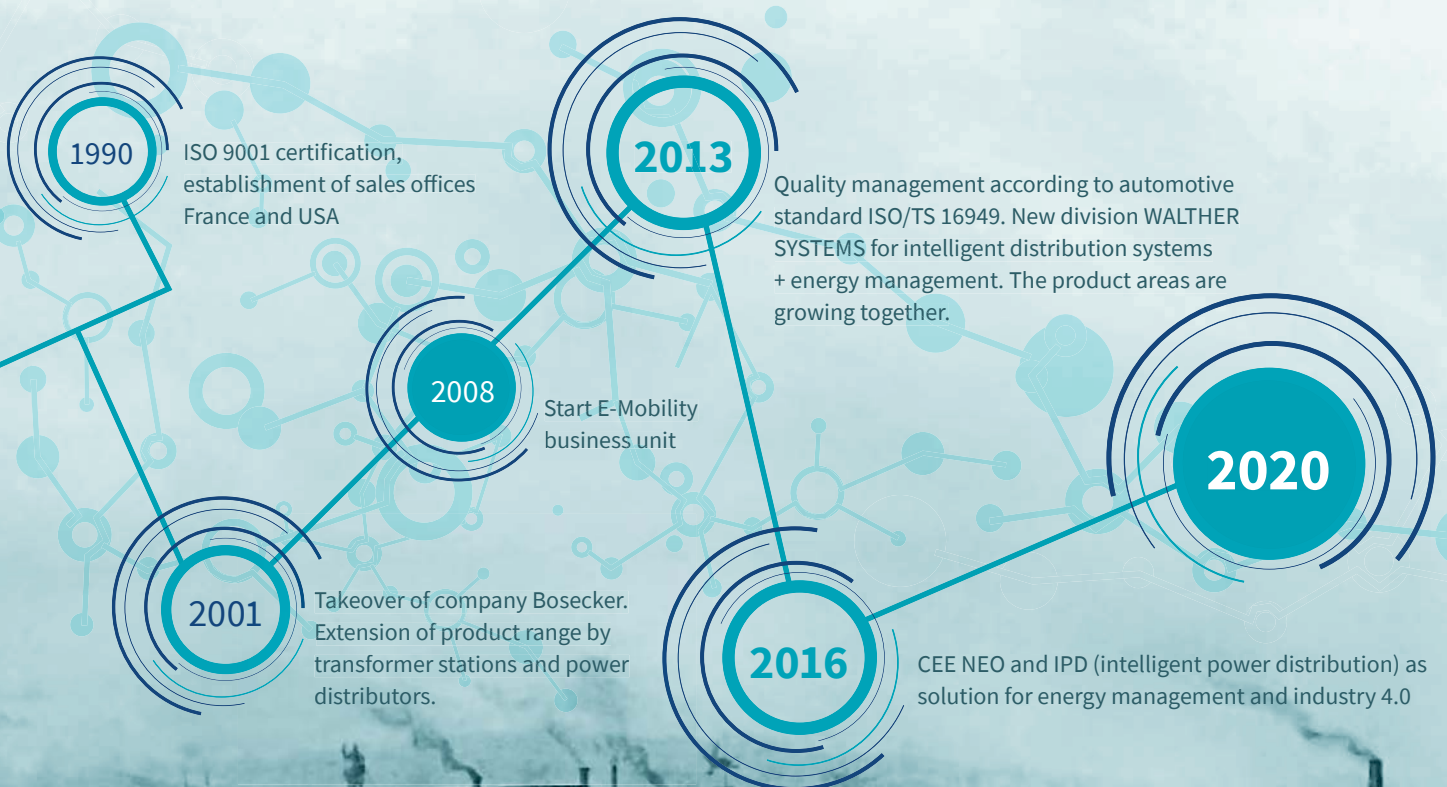
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WALTHER-WERKE A TRADITION OF ELECTRICAL ENGINEERING SINCE 1897

1897 – Ferdinand Walther founds WALTHER-WERKE. Since this time, the world has changed dramatically. After the second and third industrial revolutions, we are now entering the fourth: Industry 4.0. In the world of work and in our everyday lives, far-reaching changes are on the way. During such dynamic times, reliable partners are needed who are working now to prepare for the future.

WALTHER-WERKE have over hundred and twenty years of experience and are the experts in low voltage distribution. Since it was first founded, the company has proven its excellence time and time again at providing products and solutions for present-day and future needs. Adaptation and innovation are therefore part of WALTHER's DNA. So it is no coincidence that key innovations, such as the construction site power distributor in the 1940s and the CEE type plug connector in the 1960s were inventions by WALTHER-WERKE.



Today, the Group as a whole employs more than 400 people in the development, production and marketing of CEE type plug and socket connections, plug and socket combinations, industrial plug connectors, electromobility charging infrastructure, power distributors, and transformer stations.

As a company with a global presence, WALTHER-WERKE is represented with its products and services on all of the world's core markets. In addition to more than 60 independent sales partners, the WALTHER Group has fully-owned subsidiaries in the USA, the UK, France, and Austria. These are primarily represented on the markets with sales and in some cases production activities, with the aim of providing our customers and partners with the best possible service.



Festivals / marketplaces



Hotel / catering industry



Energy suppliers



Construction

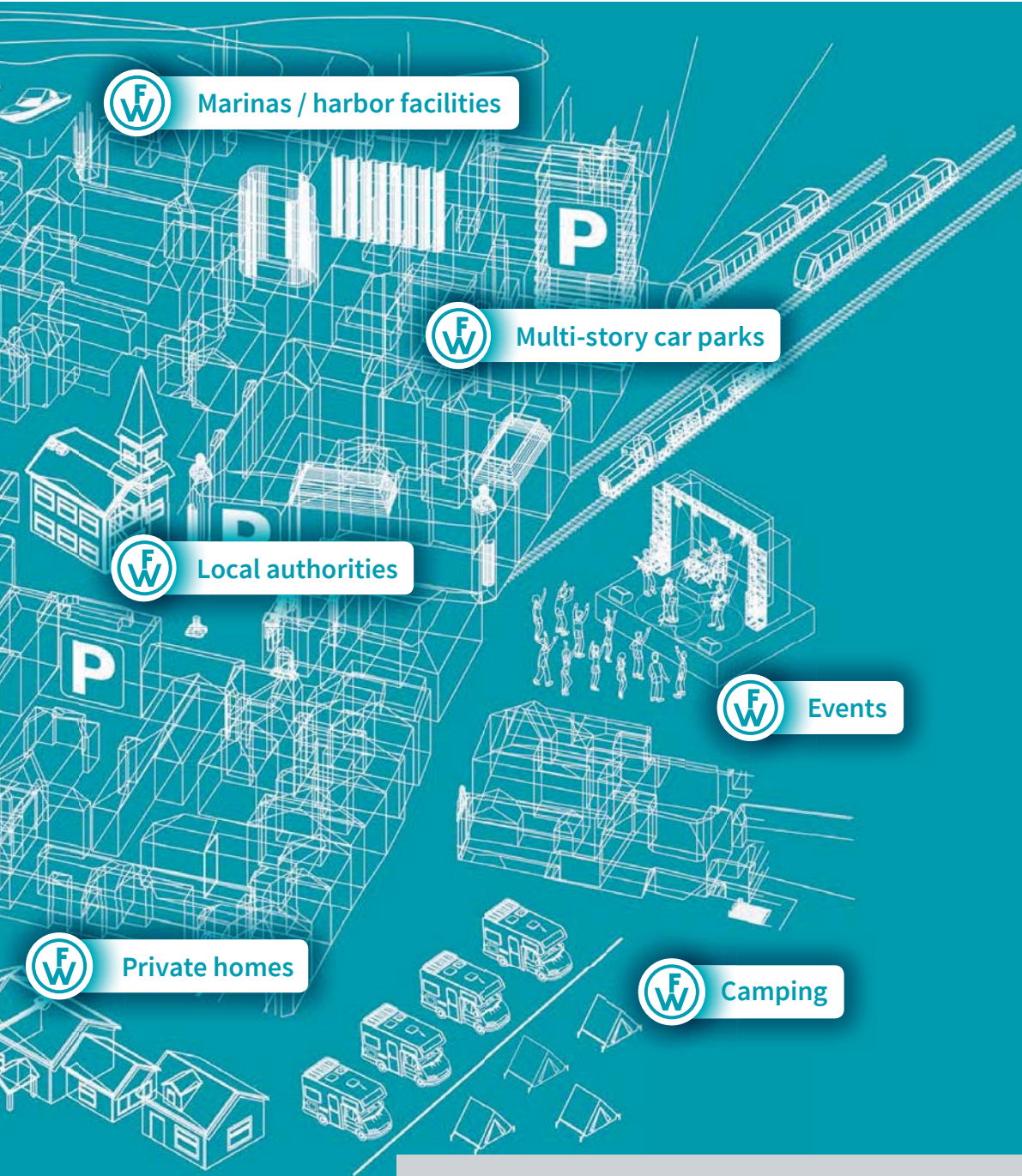


Industry / OEM



GROWING COMPLEXITIES CALL FOR INDUSTRY EXPERTISE

Providing energy to our economies efficiently is going to become one of the key challenges over coming decades. Raw materials are dwindling, yet demand is growing significantly. Subjects such as environmental protection, safety and cost-effectiveness are moving increasingly into focus. Technological developments and complexities in terms of content are growing at a rapid pace across all areas of application. The concentration and training of expertise is therefore essential if we are to overcome the challenges of the future.



F W Marinas / harbor facilities

F W Multi-story car parks

F W Local authorities

F W Events

F W Private homes

F W Camping

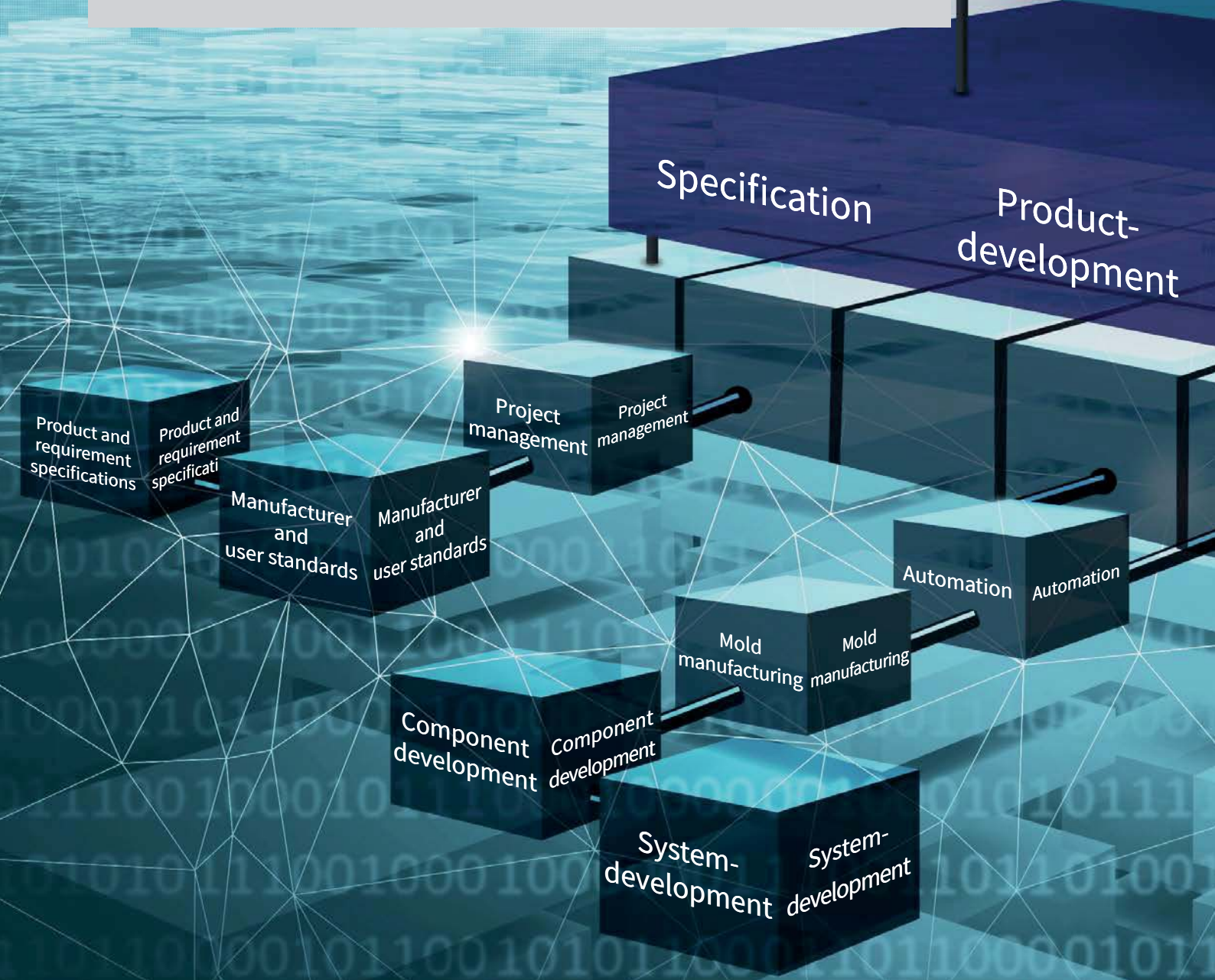
WALTHER-WERKE have made this their maxim. Comprehensive system expertise in selected areas of application is at the heart of our strategic focus. Our mission: To link electrical consumers with the energy supply network, primarily in the areas of construction, leisure, industry and mobility. To do this, we use our unique portfolio of products comprising transformer stations, power distributors, plug and socket combinations and plug systems that are tailored to their application.

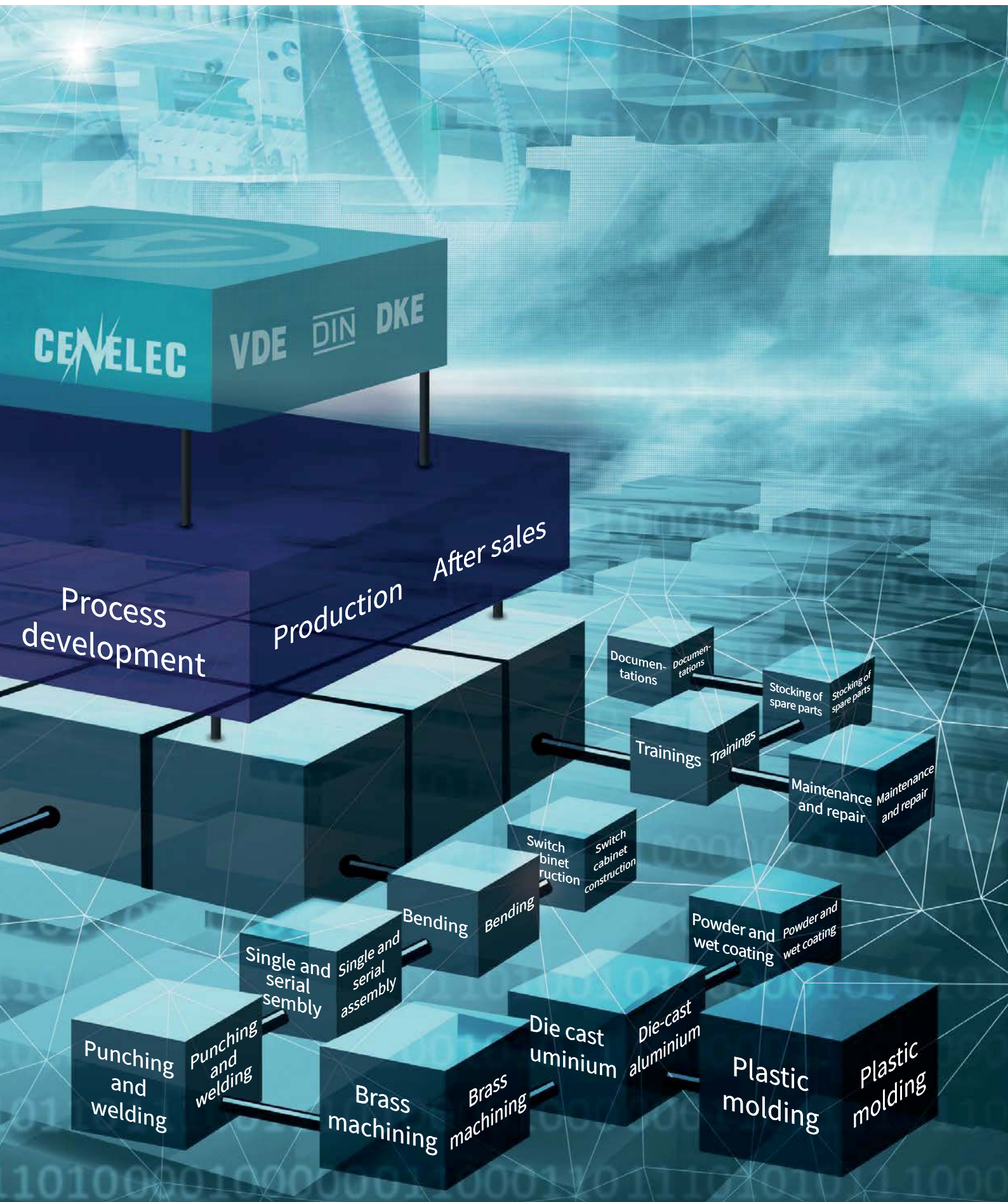
Combined with over 100 years of experience in the field of power distribution, a consistent focus on customer service and high-quality solutions, we want to provide our partners with the maximum benefits possible. Leading energy suppliers, automotive manufacturers, construction companies and industrial firms, as well as operators of campsites or yachting and container harbors, as well as organizers of events worldwide, therefore trust our solutions.

EXPERTISE AND COMMITMENT

WALTHER-WERKE have traditionally had a high degree of vertical integration when it comes to production. This means that virtually all of the key products are manufactured at German production sites. This allows us to guarantee our customers maximum flexibility, quality and most importantly technological expertise. WALTHER can handle every kind of customer request. From the creation of product and functional requirements in consultation with our customers and the development, design and creation of tools to products validated by our own, in-house testing laboratory: All from a single source. Components that we do not make ourselves are obtained exclusively from renowned, high-quality manufacturers with whom we have long-standing partnerships. After all, these components end up in a WALTHER product – and so we bear the responsibility for our customers' satisfaction.

But we don't just work under our own roof. WALTHER-WERKE's tradition also includes assuming an honorary role when working and taking responsibility with associations, as well as national and international standardization committees. This means we are able to contribute our extensive product and system expertise to the standardization process and also to ensure the advice we give to our customers always reflects the most up-to-date information.





// Integrated management systems ensure customer-focused processes



INTEGRATED MANAGEMENT SYSTEMS ENSURE CUSTOMER-FOCUSED PROCESSES

Quality and quality management at WALTHER-WERKE means much more than mere product quality in the form of value and reliability. For us, quality management is an holistic management approach and is expressed in all of the company's activities.

By taking this approach, not only do we target quality assurance, but most importantly we aim to continuously improve all of our processes, regardless whether they are value-creating or supportive – and always with the goal of maximum customer satisfaction. Quality begins with the documentation of customers' and market needs and continues to include product development (FMEA, APQP etc.) through to the entire life cycle of our products. Processes must be measurable in terms of efficiency and effectiveness, and therefore steerable. For us, this comprehensive quality management forms the foundations of long-term, successful commercial relationships with our partners.

To raise our quality management to the highest possible level, we extended our ISO 9001 certification in 2013 to the international automotive standard ISO/TS 16949 – one of the most challenging certification standards. We use this standard not just for our automotive products, but also to all of WALTHER-WERKE's product areas. That's because we are convinced that only consistent quality management will bring long-term success.

Our production has established a lean management system, the 'WALTHER-WERKE production system (PS)', declaring war on loss and waste.

Today we have a modern and regionally referenced production system which, through consistent shop floor management, represents all of the relevant performance indicators in a cascaded manner and optimizes them continuously through problem-solving methods in combination with a broad-based lean methods toolkit (SMED, One Piece Flow, Kanban, TPM, value stream design etc.) to benefit our customers. Skilled CIP teams work daily to improve our processes and integrate ideas from all employees regarding the best solutions. Lean management, and therefore ongoing continuous improvement (CIP), has therefore matured into part of the corporate culture nowadays at WALTHER.

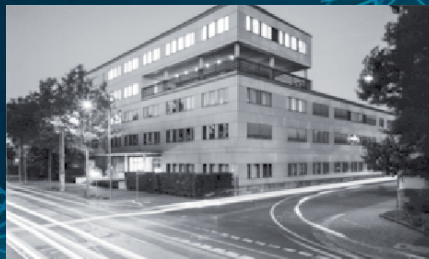
SALES: GLOBAL PRESENCE FOR MAXIMUM CLOSENESS TO THE CUSTOMER

Our slogan, “Your best connection” should be regarded not just as the overriding principle for the best connection technology, but also in particular counts as an incentive and inspiration in our interactions with customers to guarantee a reliable and trusting “connection” at all times. It is only through close communication with our customers that tailor-made solutions even become possible. A dense global sales network, comprising four of our own subsidiaries

and 60 international branches across all continents highlights our ambition to satisfy our customers’ wishes through expertise and closeness to the market. We are not interested in short-term successes, preferring instead partnerships of many years’ continuous standing that play a vital role in our customers’ strategic focus and which therefore represent an essential element of their added value process.



BOSECKER VERTEILERBAU SACHSEN GMBH,
ZITTAU



WALTHER-WERKE FERDINAND WALTHER
GMBH, WALTHER SYSTEMS, LEIPZIG



F. WALTHER ELECTRIC CORP,
USA

We regard ourselves as the ideal partner to the electrical trade and as a systems supplier to the industry and construction sector. To ensure the availability of our products at all times, we also use the logistical opportunities made available to us by our electrical wholesale partners. The satisfaction of our customers lies at the heart of everything we do. Worldwide, with high-quality products and flawless service worthy of the label "Made in Germany".



WALTHERRWERKE, EISENBERG



F. WALTHERR ELECTRICS LTD,
UNITED KINGDOM



F. WALTHERR SARL,
FRANCE



WALTHERR ELECTRIC GMBH,
AUSTRIA

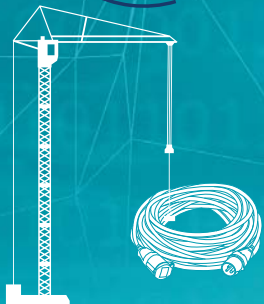
WALTHER-WERKE – CREATING CONNECTIONS BETWEEN ELECTRICAL CONSUMERS, CUSTOMERS AND THE ENERGY SUPPLY NETWORK

We offer comprehensive solutions for power distribution from medium voltage upwards and bring these to the consumer. Whether it be construction cranes, electric cars, industrial systems or camper vans – with static and mobile transformer stations and switchgear, we transform or switch low voltage to a maximum of 400 V. The decentral distribution then takes place via a broad selection of very different primary, sub and terminal distributors for all kinds of temporary or static applications. The great thing about it is that the power distribution is scalable and can be expanded at any time to reflect the real energy demand.

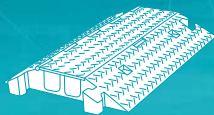
The “handover point” to consumers takes the form of CEE type plug and socket connections, industrial plug connectors and charging connections for electromobility. These are “Made by WALTHER”. This means everything from a single source, and everything is linked; designed to offer the maximum service life, in even the harshest environmental conditions.



CONSTRUCTION



Cable assembly



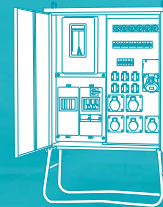
Cable protector



Cable reel



Portable socket combinations



Power distributor for construction sites



LEISURE



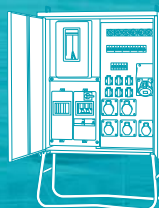
Cable assembly



Event distributor



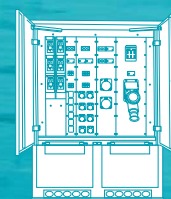
Power distributor for construction sites



ECOLECTRA 200 charging station



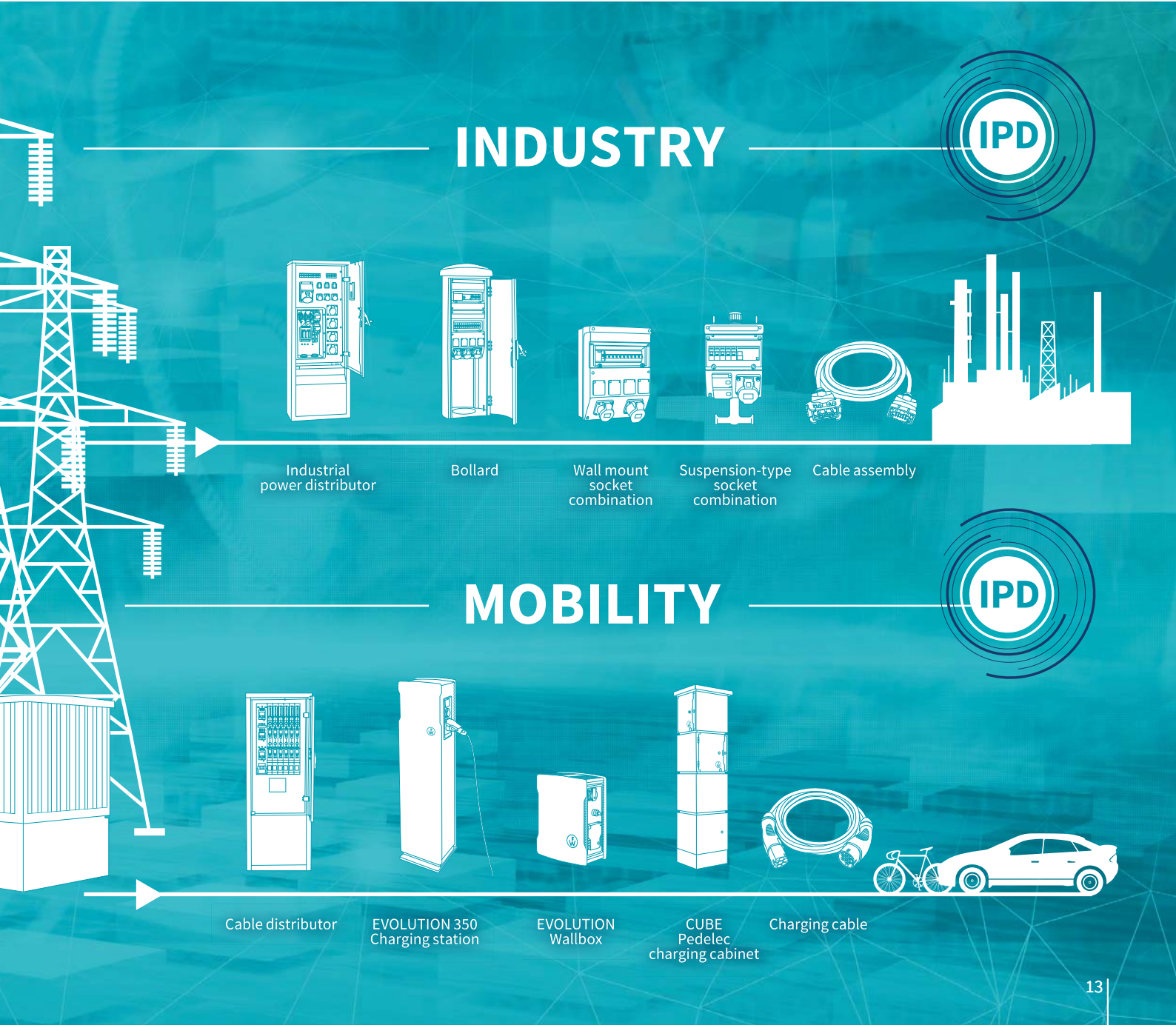
Modular distributor



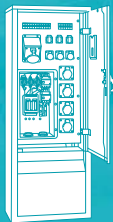
Transformer station

The unique breadth and depth of its product portfolio means that WALTHER-WERKE is able to design perfectly coordinated, comprehensive solutions and systems for its customers . The advantage for our customers most importantly lies in the fact that there is only one contact responsible for the entire project, with all of its overall system requirements.

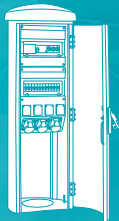
This means that customers are spared the laborious task of compiling the individual components themselves. Even if the needs increase later or if there are other technical challenges, there is only ever one contact. Thanks to their system expertise, this contact will be able to offer effective and efficient solutions quickly.



INDUSTRY



Industrial power distributor



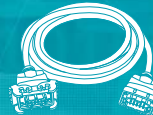
Bollard



Wall mount socket combination



Suspension-type socket combination



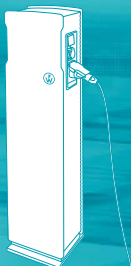
Cable assembly



MOBILITY



Cable distributor



EVOLUTION 350 Charging station



EVOLUTION Wallbox



CUBE Pedelec charging cabinet



Charging cable



THIS IS HOW PROGRESS LOOKS LIKE NEO – THE NEW GENERATION OF CEE PLUGS

Already in the 1960s, WALTHER-WERKE caused a worldwide stir with their proposal for an international standard for industrial plugs and sockets (IEC 60309), formerly known as CEE17. Today, just 50 years later, the Eisenberg based company made up again to set a new scale. With the help of worldwide discussions with users and partners, ideas have been collected in order to develop a new generation of plugs and sockets to cover today's and tomorrow's technical requirements.

Evolution and differentiation



1910



1966



1977

NEO

More than a plug



2006



2018

MAXIMUM USER BENEFITS

A BUNDLE OF PRODUCT ADVANTAGES

Optimized cover design

Easy enclosure opening

Increased protection degree IP54

A space for label placement



Easier and better in every way:
The new CEE NEO generation stands for a lot of practical and innovative solutions. Three product variations for different requirements have been developed: Classic, One-Touch and IPD.

Fast and easy connection with the unique One-Touch locking system

With just a quarter-turn, the connection is made between front and back part of the plug. At the same time, the enclosed strain relief is activated. There is also an acoustic feedback which serves as confirmation that the plug is closed - thus contributing to maximum product safety during operation. The tensile forces are acting directly on the cable and prevent material fatigue of the strain relief.

Easy and safe operation thanks to improved connection technology

A spring-clamp-connection (CAGE-CLAMP®) enables a screwless and time saving connection. The internationally proven connection clamping levers ensure easy operation and allow frequent reconnection. WAGO's CAGE-CLAMP® connection technology has gained worldwide acceptance due to all of its major international approvals.

The use of Torx screws at the screw terminal provides optimum power transmission and a longer lifespan of the screw heads.

Unique design

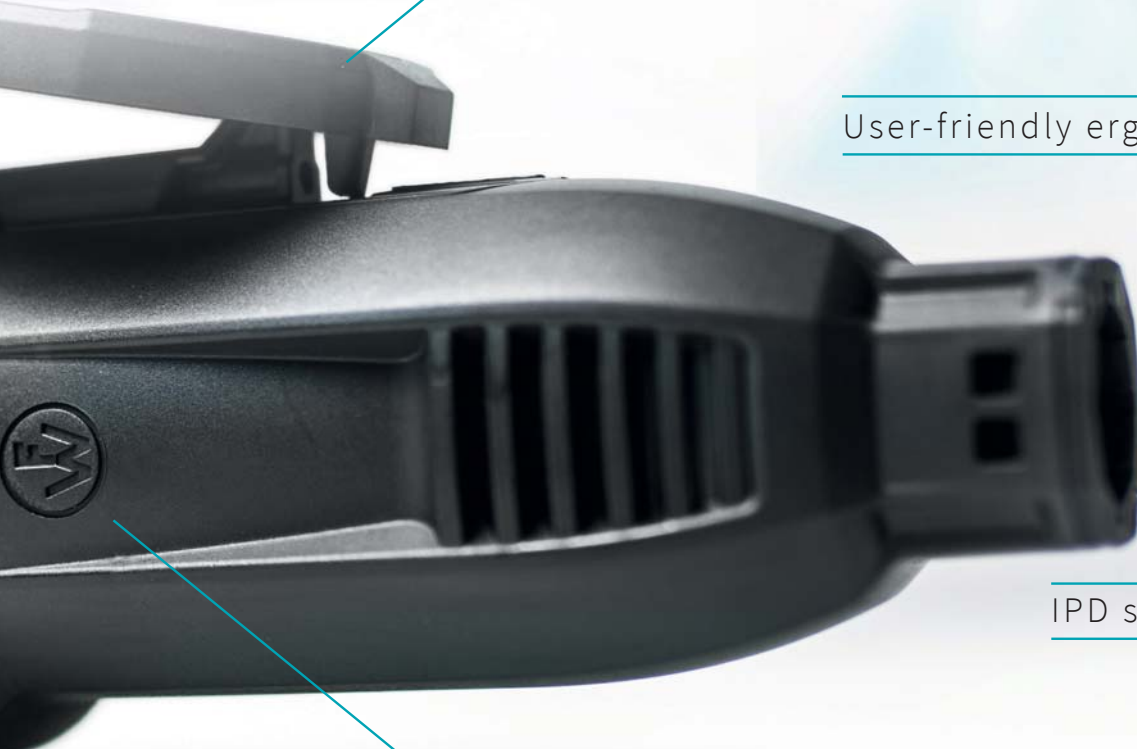
More than a plug

Improved connection technique

User-friendly ergonomics

IPD system integration

One-Touch locking system



Optimized cover construction enables easy insertion of plug and coupler

With an enlarged opening angle of 217 degrees, the coupler cover is designed in a way that it can be optimally held in the open position. This design avoids possible threading or breaking off the cover.

Robust materials and improved geometries provide additional stability.

Additional advantages

Labeling areas for compliance labels and identity codes have been added and the overall user-friendliness has been further improved, e.g. the horizontal working angle at the opening of the enclosure, which prevents the risk of injury by slipping. The standard degree of protection has been increased from IP44 to IP54.

A strong enclosure design due to specific material selection and well thought out geometries ensure a long service life of the product, even under harsh environmental conditions.

Color rings for voltage marking conforming to standards are a part of NEO's unique product design.

Ready for Industry 4.0

In the future, an optional circuit board within the front part of the plug will enable requirements in the area of Industry 4.0 to be implemented. Coupled with the functionalities of Intelligent Power Distribution (IPD) by WALTHER-WERKE, NEO plug and socket devices can communicate their status to a superordinated software level. This makes power distributions holistically intelligent and controllable for the user.

THREE VARIANTS FOR DIFFERENT REQUIREMENTS



NEO

Classic



Classic application

Traditional product design with external strain relief at the smallest possible size.

NEO

One-Touch



Professional application

Optimized for fastest assembly and reconnectability, maximum operational safety.

NEO

I P D





Future-oriented application

Developed for IoT applications with data collection and data transmission.

CEE NEO wall sockets
Enclosure made of PA66 material with
high heat resistant contact carrier made of PA66 material

	<p>CEE NEO wall sockets 16A 5P IP54 with one top cable entry</p> <p>CC = Cage clamp SK = Screw terminal connection</p>
	<p>CEE NEO wall sockets 16A 5P IP54, 3 knock-out cable entries on top/bottom</p> <p>CC = Cage clamp SK = Screw terminal connection 01 = Push-in terminal block</p>
	<p>CEE NEO wall sockets Mini combination 16A 5P IP54 with Schuko socket, unfused</p> <p>CC = Push-in terminal block SK = Screw terminal block</p>
	<p>CEE NEO wall sockets Mini combination 16A 5P IP54 with Schuko socket, fused</p> <p>03 = Push-in terminal block 04 = Screw terminal block</p>
	<p>CEE NEO wall sockets 16A 5P IP67 3 knock-out cable entries on top/bottom</p> <p>CC = Cage clamp SK = Screw terminal connection 01 = Push-in terminal block</p>
	<p></p>

Ampère	Poles	110 V	230 V	400 V	690 V	500 V	> 50 - 500 V over		 3P+N+E
		50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	300 - 500 Hz		
		5-pole 4 h	5-pole 9 h	5-pole 6 h	5-pole 5 h	5-pole 7 h	5-pole 2 h		

Part numbers


Ampère	Poles	110 V	230 V	400 V	690 V	500 V	> 50 - 500 V over	Quantity
16	5	FW110504CC	FW110509CC	FW110506CC	FW110505CC	FW110507CC	FW110502CC	10/60
16	5	FW110504SK	FW110509SK	FW110506SK	FW110505SK	FW110507SK	FW110502SK	10/60
16	5	FW111504CC	FW111509CC	FW111506CC	FW111505CC	FW111507CC	FW111502CC	5
16	5	FW111504SK	FW111509SK	FW111506SK	FW111505SK	FW111507SK	FW111502SK	5
16	5	FW11150401	FW11150901	FW11150601	FW11150501	FW11150701	FW11150201	5
16	5			FW112506CC				5
16	5			FW112506SK				5
16	5			FW11250603				5
16	5			FW11250604				5
16	5	FW119504CC	FW119509CC	FW119506CC	FW119505CC	FW119507CC	FW119502CC	5
16	5	FW119504SK	FW119509SK	FW119506SK	FW119505SK	FW119507SK	FW119502SK	5
16	5	FW11950401	FW11950901	FW11950601	FW11950501	FW11950701	FW11950201	5



CEE NEO Plugs

Enclosure made of PA66 material with high heat resistant contact carrier made of PA66 material and nickel-plated contacts

	<p>CEE NEO plugs 16A 5P IP54 ONE-TOUCH with automatically activating strain relief</p> <p>CC = Cage clamp SK = Screw terminal connection</p>
	<p>CEE NEO plugs 16A 5P IP54 Classic with external cable gland with strain relief</p> <p>CC = Cage clamp SK = Screw terminal connection PH = Phase inverter</p>
	<p>CEE NEO plugs 16A 5P IP67 Classic with external cable gland with strain relief</p> <p>CC = Cage clamp SK = Screw terminal connection PH = Phase inverter</p>
	<p>CEE NEO plugs 16A 5P IP67 ONE-TOUCH with automatically activating strain relief</p> <p>CC = Cage clamp SK = Screw terminal connection</p>
	<p>Empty description area.</p>
	<p>Empty description area.</p>

Ampère	Poles	110 V	230 V	400 V	690 V	500 V	> 50 - 500 V over	
		50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	300 - 500 Hz	
		5-pole 4 h	5-pole 9 h	5-pole 6 h	5-pole 5 h	5-pole 7 h	5-pole 2 h	



3 P + N + E

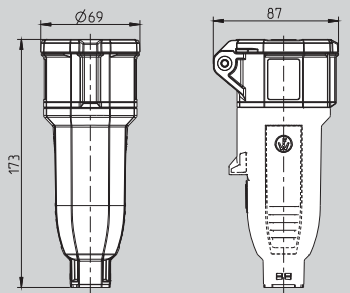
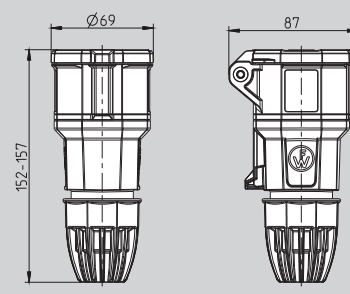
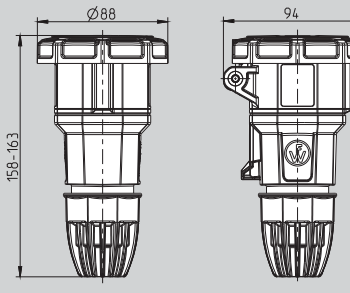
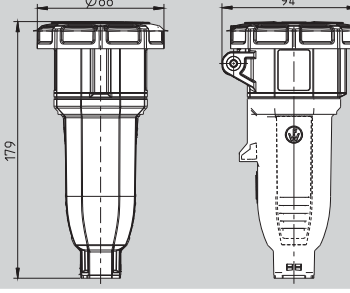
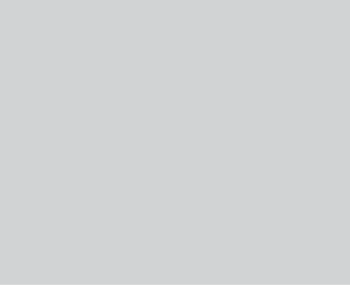
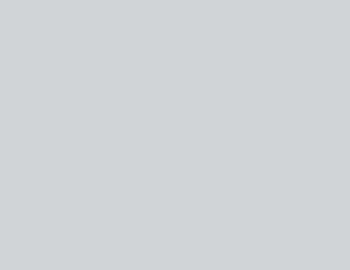
Part numbers

Ampère	Poles	110 V	230 V	400 V	690 V	500 V	> 50 - 500 V over	
16	5	FW210504CC	FW210509CC	FW210506CC	FW210505CC	FW210507CC	FW210502CC	5/60
16	5	FW210504SK	FW210509SK	FW210506SK	FW210505SK	FW210507SK	FW210502SK	5/60
16	5	FW211504CC	FW211509CC	FW211506CC	FW211505CC	FW211507CC	FW211502CC	5/60
16	5	FW211504SK	FW211509SK	FW211506SK	FW211505SK	FW211507SK	FW211502SK	5/60
16	5	FW211504PH	FW211509PH	FW211506PH	FW211505PH	FW211507PH	FW211502PH	5/60
16	5	FW218504CC	FW218509CC	FW218506CC	FW218505CC	FW218507CC	FW218502CC	5/60
16	5	FW218504SK	FW218509SK	FW218506SK	FW218505SK	FW218507SK	FW218502SK	5/60
16	5	FW218504PH	FW218509PH	FW218506PH	FW218505PH	FW218507PH	FW218502PH	5/60
16	5	FW219504CC	FW219509CC	FW219506CC	FW219505CC	FW219507CC	FW219502CC	5/60
16	5	FW219504SK	FW219509SK	FW219506SK	FW219505SK	FW219507SK	FW219502SK	5/60



CEE NEO Couplers

Enclosure made of PA66 material with high heat resistant contact carrier made of PA66 material and nickel-plated contacts

	<p>CEE NEO couplers 16A 5P IP54 ONE-TOUCH with automatically activating strain relief</p> <p>CC = Cage clamp SK = Screw terminal connection</p>
	<p>CEE NEO couplers 16A 5P IP54 Classic with external cable gland with strain relief</p> <p>CC = Cage clamp SK = Screw terminal connection</p>
	<p>CEE NEO couplers 16A 5P IP67 Classic with external cable gland with strain relief</p> <p>CC = Cage clamp SK = Screw terminal connection</p>
	<p>CEE NEO couplers 16A 5P IP67 ONE-TOUCH with automatically activating strain relief</p> <p>CC = Cage clamp SK = Screw terminal connection</p>
	<p>Empty text area.</p>
	<p>Empty text area.</p>

Ømm	Poles	0 V	0 V	00 V	0 V	500 V	50 500 V o e	Icons
		50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	00 - 500 Hz	
		5-pole h	5-pole h	5-pole 6 h	5-pole 5 h	5-pole 7 h	5-pole 2 h	



3 P + N + E

Part numbers

Ømm	Poles	0 V	0 V	00 V	0 V	500 V	50 500 V o e	Icons
16	5	FW310504CC	FW310509CC	FW310506CC	FW310505CC	FW310507CC	FW310502CC	5/60
16	5	FW310504SK	FW310509SK	FW310506SK	FW310505SK	FW310507SK	FW310502SK	5/60
16	5	FW311504CC	FW311509CC	FW311506CC	FW311505CC	FW311507CC	FW311502CC	5/60
16	5	FW311504SK	FW311509SK	FW311506SK	FW311505SK	FW311507SK	FW311502SK	5/60
16	5	FW318504CC	FW318509CC	FW318506CC	FW318505CC	FW318507CC	FW318502CC	5/60
16	5	FW318504SK	FW318509SK	FW318506SK	FW318505SK	FW318507SK	FW318502SK	5/60
16	5	FW319504CC	FW319509CC	FW319506CC	FW319505CC	FW319507CC	FW319502CC	5/60
16	5	FW319504SK	FW319509SK	FW319506SK	FW319505SK	FW319507SK	FW319502SK	5/60



FW310506CC



FW310506CC

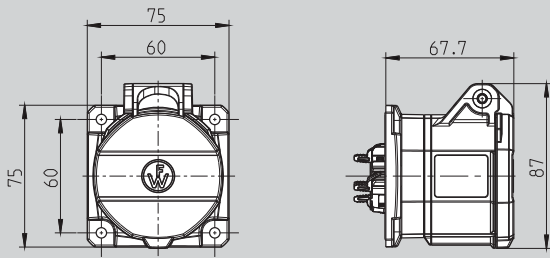


FW318506CC



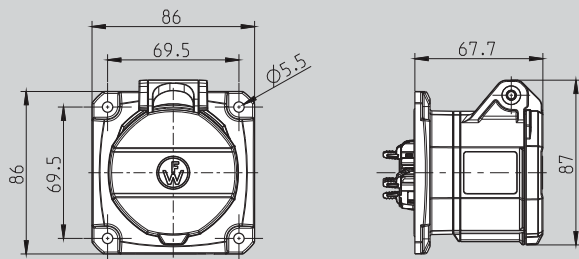
FW319506CC

CEE NEO Panel sockets
Enclosure made of PA66 material with high heat resistant
contact carrier made of PA66 material and nickel-plated contacts



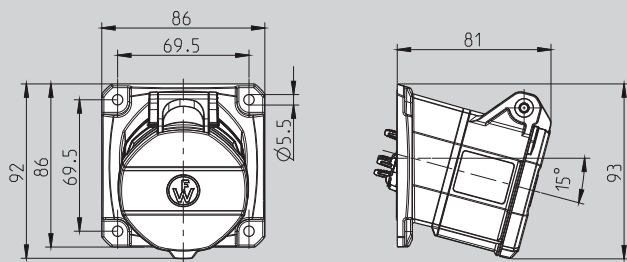
CEE NEO panel socket, straight
16A 5P IP54
Flange 75x75mm

CC = Cage clamp
SK = Screw terminal connection



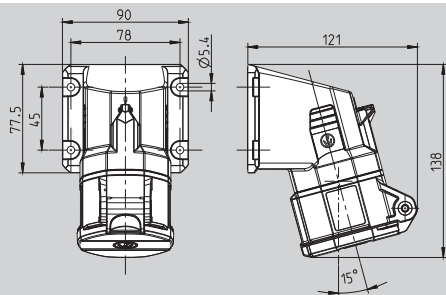
CEE NEO panel socket, straight
16A 5P IP54
Flange 86x86mm

CC = Cage clamp
SK = Screw terminal connection





CEE NEO panel socket, angled
16A 5P IP54
Flange 86x86mm

CC = Cage clamp
SK = Screw terminal connection







CEE NEO panel socket, angled
16A 5P IP54
with attached housing
Flange 77,5x90mm

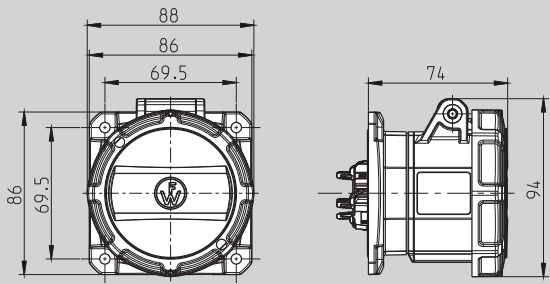
CC = Cage clamp
SK = Screw terminal connection

Voltage	Poles	500 V	500 V	500 V	500 V	500 V	50 500 V 0 500 - 500 Hz	5-pole 2 h		 3 P+N+E
		50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	500 V				

Part numbers

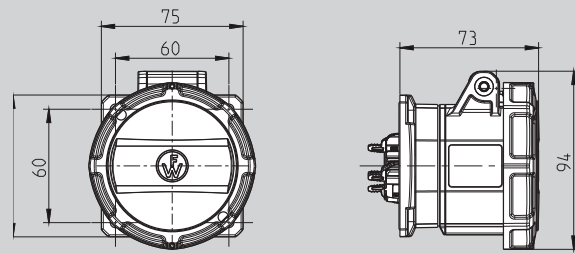
16	5	FW410504CC	FW410509CC	FW410506CC	FW410505CC	FW410507CC	FW410502CC	10/60	 FW310506CC
16	5	FW410504SK	FW410509SK	FW410506SK	FW410505SK	FW410507SK	FW410502SK	10/60	
16	5	FW411504CC	FW411509CC	FW411506CC	FW411505CC	FW411507CC	FW411502CC	10/60	 FW310506CC
16	5	FW411504SK	FW411509SK	FW411506SK	FW411505SK	FW411507SK	FW411502SK	10/60	
16	5	FW510504CC	FW510509CC	FW510506CC	FW510505CC	FW510507CC	FW510502CC	10/60	 FW318506CC
16	5	FW510504SK	FW510509SK	FW510506SK	FW510505SK	FW510507SK	FW510502SK	10/60	
16	5	FW513504CC	FW513509CC	FW513506CC	FW513505CC	FW513507CC	FW513502CC	10/60	 FW319506CC
16	5	FW513504SK	FW513509SK	FW513506SK	FW513505SK	FW513507SK	FW513502SK	10/60	

CEE NEO Panel sockets
Enclosure made of PA66 material with high heat resistant
contact carrier made of PA66 material and nickel-plated contacts



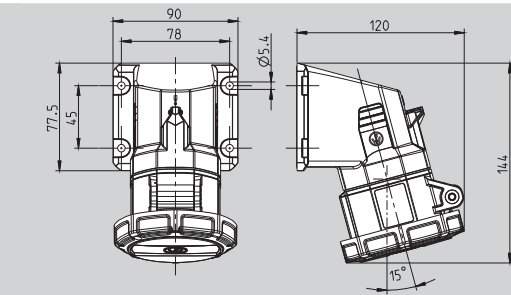
CEE NEO panel socket, straight
16A 5P IP67
Flange 86x86mm

CC = Cage clamp
SK = Screw terminal connection



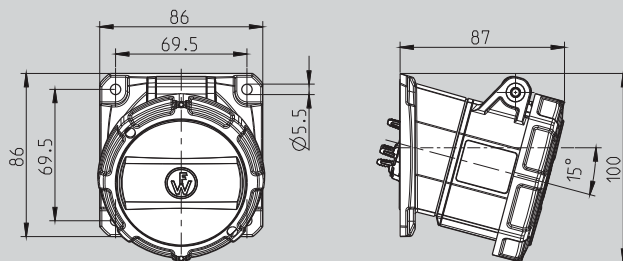
CEE NEO panel socket, straight
16A 5P IP67
Flange 86x86mm

CC = Cage clamp
SK = Screw terminal connection





CEE NEO panel socket, angled
16A 5P IP67
with attached housing
Flange 77,5x90mm

CC = Cage clamp
SK = Screw terminal connection







CEE NEO panel socket, angled
16A 5P IP67
Flange 86x86mm

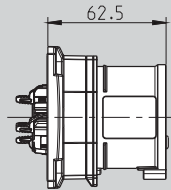
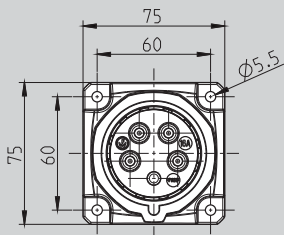
CC = Cage clamp
SK = Screw terminal connection

Voltage	Poles	500 V	500 V	500 V	500 V	500 V	50 500 V 0 500 - 500 Hz	5-pole 2 h		 3P+N+E
		50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	50 and 60 Hz				

Part numbers

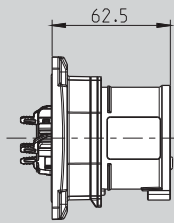
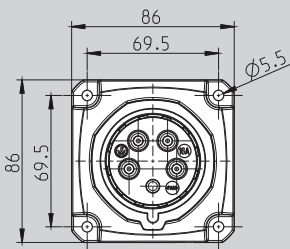
16	5	FW418504CC	FW418509CC	FW418506CC	FW418505CC	FW418507CC	FW418502CC	10/60	 FW418506CC
16	5	FW418504SK	FW418509SK	FW418506SK	FW418505SK	FW418507SK	FW418502SK	10/60	
16	5	FW419504CC	FW419509CC	FW419506CC	FW419505CC	FW419507CC	FW419502CC	10/60	 FW419506CC
16	5	FW419504SK	FW419509SK	FW419506SK	FW419505SK	FW419507SK	FW419502SK	10/60	
16	5	FW518504CC	FW518509CC	FW518506CC	FW518505CC	FW518507CC	FW518502CC	5	 FW518506CC
16	5	FW518504SK	FW518509SK	FW518506SK	FW518505SK	FW518507SK	FW518502SK	5	
16	5	FW519504CC	FW519509CC	FW519506CC	FW519505CC	FW519507CC	FW519502CC	10/60	 FW519506CC
16	5	FW519504SK	FW519509SK	FW519506SK	FW519505SK	FW519507SK	FW519502SK	10/60	

CEE NEO Panel mounted inlets / wall mounted inlets
Enclosure made of PA66 material with high heat resistant
contact carrier made of PA66 material and nickel-plated contacts



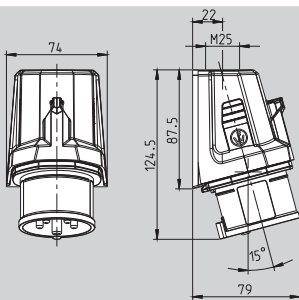
CEE NEO panel mounted inlet, straight
16A 5P IP54
Flange 75x75mm

CC = Cage clamp
SK = Screw terminal connection
PH = Phase inverter with screw terminal connection



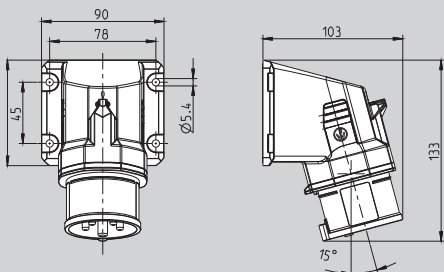
CEE NEO panel mounted inlet, straight
16A 5P IP54
Flange 86x86mm

CC = Cage clamp
SK = Screw terminal connection
PH = Phase inverter with screw terminal connection



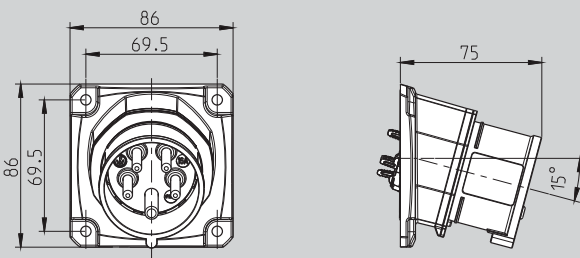
CEE NEO wall mounted inlet, angled
16A 5P IP54
with one top cable entry

CC = Cage clamp
SK = Screw terminal connection
PH = Phase inverter with screw terminal connection



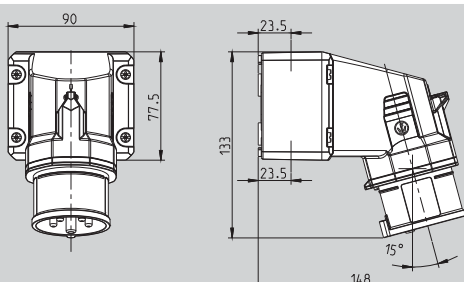
CEE NEO panel mounted inlet, angled
16A 5P IP54
with attached housing
Flange 77,5x90mm

CC = Cage clamp
SK = Screw terminal connection
PH = Phase inverter with screw terminal connection



CEE NEO panel mounted inlet, angled
16A 5P IP54
Flange 86x86mm

CC = Cage clamp
SK = Screw terminal connection
PH = Phase inverter with screw terminal connection



CEE NEO wall mounted inlet, angled
16A 5P IP54,
3 knock-out cable entries on top/bottom

CC = Cage clamp
SK = Screw terminal connection
PH = Phase inverter with screw terminal connection

CEE NEO Panel / Wall Mounted Inlets

Voltage	Poles	500 V	500 V	500 V	500 V	500 V	Icons	5 3P+N+E
		50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	50 and 60 Hz	500 V 50 and 60 Hz		
		5-pole 6h	5-pole 6h	5-pole 6h	5-pole 5h	5-pole 7h		

Part numbers								
16	5	FW610504CC	FW610509CC	FW610506CC	FW610505CC	FW610507CC	FW610502CC	10/60
	5	FW610504SK	FW610509SK	FW610506SK	FW610505SK	FW610507SK	FW610502SK	10/60
	5	FW610504PH	FW610509PH	FW610506PH	FW610505PH	FW610507PH	FW610502PH	10/60
16	5	FW611504CC	FW611509CC	FW611506CC	FW611505CC	FW611507CC	FW611502CC	10/60
	5	FW611504SK	FW611509SK	FW611506SK	FW611505SK	FW611507SK	FW611502SK	10/60
	5	FW611504PH	FW611509PH	FW611506PH	FW611505PH	FW611507PH	FW611502PH	10/60
16	5	FW710504CC	FW710509CC	FW710506CC	FW710505CC	FW710507CC	FW710502CC	10/60
	5	FW710504SK	FW710509SK	FW710506SK	FW710505SK	FW710507SK	FW710502SK	10/60
	5	FW710504PH	FW710509PH	FW710506PH	FW710505PH	FW710507PH	FW710502PH	10/60
16	5	FW711504CC	FW711509CC	FW711506CC	FW711505CC	FW711507CC	FW711502CC	10/60
	5	FW711504SK	FW711509SK	FW711506SK	FW711505SK	FW711507SK	FW711502SK	10/60
	5	FW711504PH	FW711509PH	FW711506PH	FW711505PH	FW711507PH	FW711502PH	10/60
16	5	FW713504CC	FW713509CC	FW713506CC	FW713505CC	FW713507CC	FW713502CC	10/60
	5	FW713504SK	FW713509SK	FW713506SK	FW713505SK	FW713507SK	FW713502SK	10/60
	5	FW713504PH	FW713509PH	FW713506PH	FW713505PH	FW713507PH	FW713502PH	10/60
16	5	FW714504CC	FW714509CC	FW714506CC	FW714505CC	FW714507CC	FW714502CC	10/60
	5	FW714504SK	FW714509SK	FW714506SK	FW714505SK	FW714507SK	FW714502SK	10/60
	5	FW714504PH	FW714509PH	FW714506PH	FW714505PH	FW714507PH	FW714502PH	10/60



CEE NEO Panel mounted inlets / wall mounted inlets
Enclosure made of PA66 material with high heat resistant
contact carrier made of PA66 material and nickel-plated contacts

	<p>CEE NEO panel mounted inlet, straight 16A 5P IP67 Flange 86x86mm</p> <p>CC = Cage clamp SK = Screw terminal connection PH = Phase inverter with screw terminal connection</p>
	<p>CEE NEO panel mounted inlet, angled 16A 5P IP67 Flange 86x86mm</p> <p>CC = Cage clamp SK = Screw terminal connection PH = Phase inverter with screw terminal connection</p>
	<p>CEE NEO wall mounted inlet, angled 16A 5P IP67, 3 knock-out cable entries on top/bottom</p> <p>CC = Cage clamp SK = Screw terminal connection PH = Phase inverter with screw terminal connection</p>
	<p>CEE NEO panel mounted inlet, angled 16A 5P IP67 with attached housing Flange 77,5x90mm</p> <p>CC = Cage clamp SK = Screw terminal connection PH = Phase inverter with screw terminal connection</p>
	<p>Blank technical drawing area.</p>
	<p>Blank technical drawing area.</p>

CEE NEO Panel / Wall Mounted Inlets

2

Ømm	Ømm	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz
16	5	5-pole Øh	5-pole Øh	5-pole 6 h	5-pole 5 h	5-pole 7 h	5-pole 2 h		



3P+N+E

Part numbers

Ømm	Ømm	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz	500 V 50 and 60 Hz
16	5	FW619504CC	FW619509CC	FW619506CC	FW619505CC	FW619507CC	FW619502CC	10/60	
16	5	FW619504SK	FW619509SK	FW619506SK	FW619505SK	FW619507SK	FW619502SK	10/60	
16	5	FW619504PH	FW619509PH	FW619506PH	FW619505PH	FW619507PH	FW619502PH	10/60	
16	5	FW717504CC	FW717509CC	FW717506CC	FW717505CC	FW717507CC	FW717502CC	10/60	
16	5	FW717504SK	FW717509SK	FW717506SK	FW717505SK	FW717507SK	FW717502SK	10/60	
16	5	FW717504PH	FW717509PH	FW717506PH	FW717505PH	FW717507PH	FW717502PH	10/60	
16	5	FW718504CC	FW718509CC	FW718506CC	FW718505CC	FW718507CC	FW718502CC	5	
16	5	FW718504SK	FW718509SK	FW718506SK	FW718505SK	FW718507SK	FW718502SK	5	
16	5	FW718504PH	FW718509PH	FW718506PH	FW718505PH	FW718507PH	FW718502PH	5	
16	5	FW719504CC	FW719509CC	FW719506CC	FW719505CC	FW719507CC	FW719502CC	5	
16	5	FW719504SK	FW719509SK	FW719506SK	FW719505SK	FW719507SK	FW719502SK	5	
16	5	FW719504PH	FW719509PH	FW719506PH	FW719505PH	FW719507PH	FW719502PH	5	



FW619506CC



FW717506CC



FW718506CC



FW719506CC

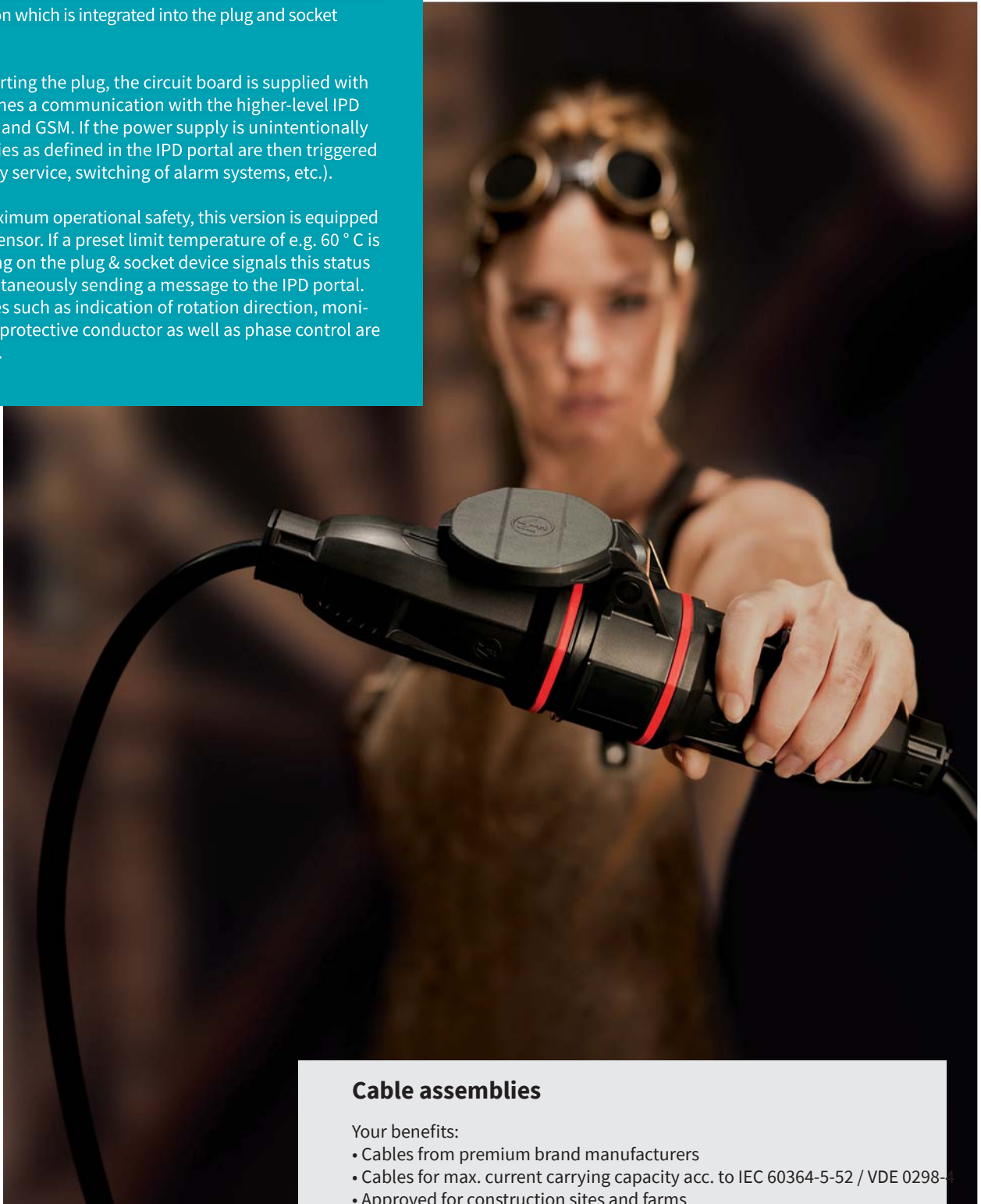
NEO IPD

The CEE plug and socket device NEO IPD is a system component in the context of Intelligent Power Distribution // IPD from WALTHER-WERKE. More information at www.ipd.energy.

The prefabricated extensions or connection cables contain a circuit board with bluetooth function which is integrated into the plug and socket device.

NEO IPD-BTS: By inserting the plug, the circuit board is supplied with power and it establishes a communication with the higher-level IPD system via bluetooth and GSM. If the power supply is unintentionally disconnected, activities as defined in the IPD portal are then triggered (e.g. e-mail to security service, switching of alarm systems, etc.).


NEO IPD-BTT: For maximum operational safety, this version is equipped with a temperature sensor. If a preset limit temperature of e.g. 60 °C is exceeded, the LED ring on the plug & socket device signals this status by flashing and simultaneously sending a message to the IPD portal. Further functionalities such as indication of rotation direction, monitoring of neutral and protective conductor as well as phase control are in the planning stage.




Cable assemblies

Your benefits:

- Cables from premium brand manufacturers
- Cables for max. current carrying capacity acc. to IEC 60364-5-52 / VDE 0298-4
- Approved for construction sites and farms
- High quality plugs and couplers
- High quality standards, each cable with attached test report
- Short delivery times, standard lengths available from stock

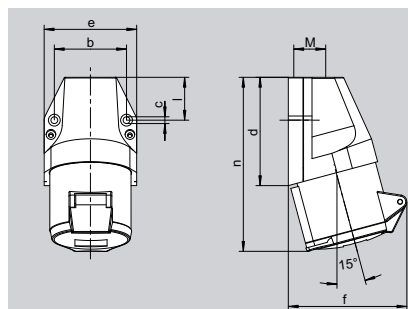
	Ampère	Poles	Protection degree	Cable rubber	400 V 50 and 60 Hz	 3 P + N + E
				Length	5-pole 6 h	
Part numbers						

Standard cables

CEE NEO plug + CEE NEO coupler 16A 5P IP54 ONE-TOUCH with automatically activating strain relief CC = Cage clamp	16	5	IP54	5 m H07RN-F 5G2,5	39100502050100	
				10 m H07RN-F 5G2,5	39100502100100	
				25 m H07RN-F 5G2,5	39100502250100	

NEO IPD cables with integrated bluetooth function

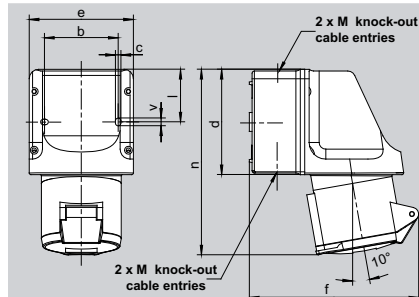
CEE NEO plug, IPD with BT BT = Bluetooth + CEE NEO coupler CC = Cage clamp 16A 5P IP54 ONE-TOUCH with automatically activating strain relief	16	5	IP54	5 m H07RN-F 5G2,5	39100502050200	
				10 m H07RN-F 5G2,5	39100502100200	
				25 m H07RN-F 5G2,5	39100502250200	



Amp.	16			32		
Poles	3	4	5	3	4	5
b	45,5	60	60	60	60	60
c	5,3	5,3	5,3	5,3	5,3	5,3
d	74	80	80	97	97	97
e	60	74	74	82	82	82
f	75	86	90	103	103	105
l	28	31	31	45	45	45
n	120	128	129	154	154	155
M	20	20	20	25	25	25

Wall sockets, with screw terminals,
external fixing, 1 top cable entry,
IP 44 ▲

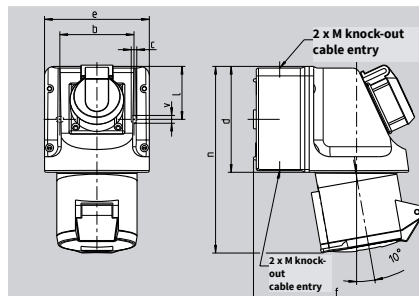
Wall sockets with push-in terminals are the indicated part numbers with SL:
SL: 110 SL and 130 SL



Amp.	16			32		
Poles	3	4	5	3	4	5
b	66,5	66,5	66,5	66,5	66,5	66,5
c	5	5	5	5	5	5
d	96	96	96	96	96	96
e	95	95	95	95	95	95
f	140	143	146	154	154	157
l	47,5	47,5	47,5	47,5	47,5	47,5
n	160	164	164	173	173	173
v	7	7	7	7	7	7
M	20/25	20/25	20/25	20/25	20/25	20/25

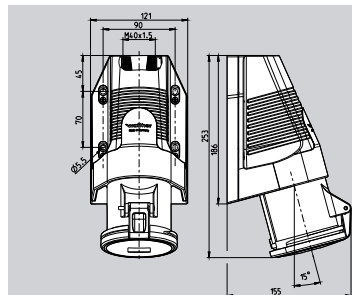
Wall sockets, with screw terminals,
internal fixing,
2 knockout cable entries on top and bottom,
1 knockout entry in the back wall,
IP 44 ▲

Wall sockets with push-in terminals are the indicated part numbers with SL:
111 SL and 131 SL



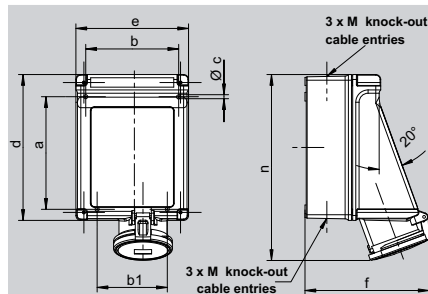
Mini combinations, CEETyp wall socket with Schuko socket,
16 A, 230 V, 2 P + E, IP 44 ▲
2 cable entries on top and bottom,
1 knockout entry in the back wall

- 1) unwired
- 2) Schuko socket protected with fuse 6,3 A „G“, 5 x 20 mm
- 3) 16 A and 32 A supply lines required



Amp.	63		
Poles	3	4	5
a	136	136	136
b	104	104	104
c	4,2	4,2	4,2
d	172	172	172
e	121	121	121
f	178	178	178
n	220	220	220
v	5	5	5

Wall sockets,
internal fixing,
1 top cable entry, open
2 bottom cable entries, knock-out,
bottom part revoluble through 180 °,
IP 44 ▲



Amp.	63		
Poles	3	4	5
a	183	183	183
b	151	151	151
b1	114	114	114
c	6,5	6,5	6,5
d	237	237	237
e	183	183	183
f	196	196	196
n	302	302	302
M	25/32/40	25/32/40	25/32/40

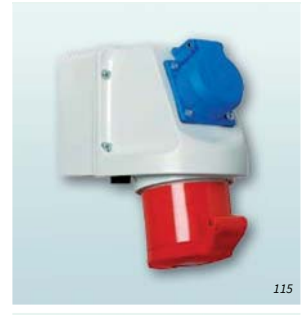
Wall sockets,
internal fixing,
2 top cable entries,
2 bottom cable entries, knock-out,
IP 44 ▲

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h	3-pole 10 h	4-pole 10 h	5-pole 10 h	3-pole 2 h	4-pole 2 h	5-pole 2 h	



		Part numbers																	
16	3	110 304	110 306	110 309														10/60	
16	4	110 404	110 409	110 406		110 407		110 410		110 402								10	
16	5	110 504	110 509	110														10/60	
16	5			110 Ni														10	
16	5			110 SL														10/60	
32	3	130 304	130 306	130 309														10	
32	4	130 404	130 409	130 406		130 407		130 410		130 402								10	
32	5	130 504	130 509	130														10/60	
32	5			130 Ni														10/60	
32	5			130 SL														10/60	
16	3	111 304	111 306	111 309														5	
16	4	111 404	111 409	111 406		111 407		111 410		111 402								5	
16	5	111 504	111 509	111														5	
16	5			111 Ni														5	
16	5			111 SL														5	
32	3	131 304	131 306	131 309														5	
32	4	131 404	131 409	131 406		131 407		131 410		131 402								5	
32	5	131 504	131 509	131														5	
32	5			131 Ni														5	
32	5			131 SL														5	
16	3		114 306															5	
16	3		115 306 ²⁾															5	
32	3		134 306 ³⁾															5	
32	3		135 306 ²⁾															5	
16	5			114														5	
16	5			114 UV ¹⁾														5	
16	5			115 ²⁾														5	
16	5			115 Ni														5	
32	5			134 ³⁾														5	
32	5			134 UV ^{1,3)}														5	
32	5			135 Ni														5	
32	5			135 ²⁾														5	
63	3	160 304	160 306	160 309														2	
63	4	160 404	160 409	160 406		160 407		160 410		160 402								2	
63	5	160 504	160 509	160														2	
63	3	163 304	163 306	163 309														1	
63	4	163 404	163 409	163 406		163 407		163 410		163 402								1	
63	5	163 504	163 509	163														1	

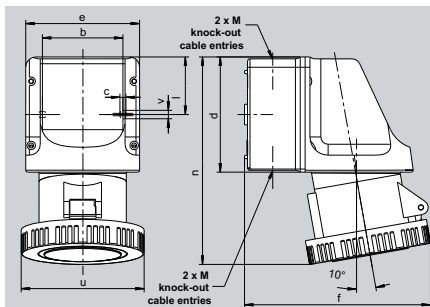
3



The here listed 63A + 125A wall sockets are also available with **pilot contact**.
To order them, simply add a "P" behind the standard part number.

Availability of blue printed (or not listed) frequencies and voltages up to 690 V on request!

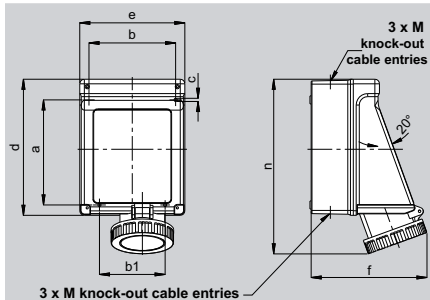
1) unwired
2) Schuko socket protected with fuse 6,3 A „G“, 5 x 20 mm
3) 16 A and 32 A supply lines required



Amp.	16			32		
Poles	3	4	5	3	4	5
b	66,5	66,5	66,5	66,5	66,5	66,5
c	5	5	5	5	5	5
d	96	96	96	96	96	96
e	95	95	95	95	95	95
f	140	144	147	156	156	156
l	47,5	47,5	47,5	47,5	47,5	47,5
n	164	164	164	176	176	176
u	72	81	88	96	96	103
v	7	7	7	7	7	7
M	20/25	20/25	20/25	20/25	20/25	20/25

Wall sockets,

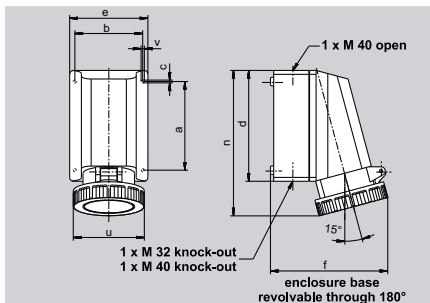
internal fixing,
2 top and bottom cable entries, knock-out,
1 knockout entry in the back wall,
IP 67



Amp.	63		
Poles	3	4	5
a	183	183	183
b	151	151	151
b1	114	114	114
c	6,5	6,5	6,5
d	237	237	237
e	183	183	183
f	209	209	209
n	309	309	309
M	25/32/40	25/32/40	25/32/40

Wall sockets,

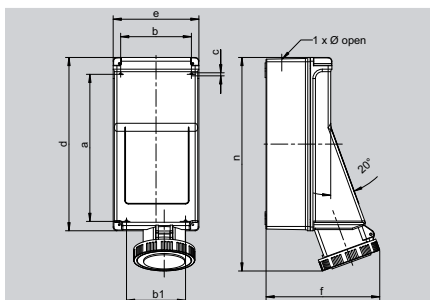
internal fixing,
3 top cable entries, knockout,
3 bottom cable entries, knockout,
IP 67



Amp.	63		
Poles	3	4	5
a	136	136	136
b	104	104	104
c	4,2	4,2	4,2
d	172	172	172
e	121	121	121
f	178	178	178
n	224	224	224
v	5	5	5

Wall sockets,

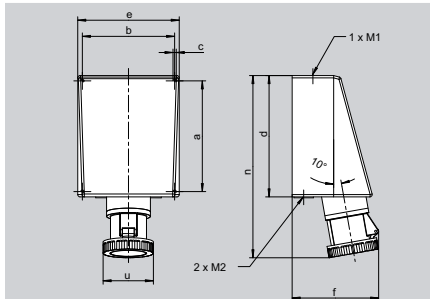
internal fixing,
1 top cable entry, open,
2 bottom cable entries, knockout,
bottom part revolvable through 180 °,
IP 67



Amp.	125		
Poles	3	4	5
a	316	316	316
b	151	151	151
b1	126	126	126
c	6,5	6,5	6,5
d	370	370	370
e	183	183	183
f	243	243	243
n	450	450	450
M	50	50	50

Wall sockets

Multi-Contact =
high contact pressure - easy withdrawal,
internal fixing,
top cable entry:
1 x M 50,
terminal block set 3, 4 and 5 x 50 mm²,
IP 67



Amp.	125		
Poles	3	4	5
a	240	240	240
b	200	200	200
c	7	7	7
d	263	263	263
e	220	220	220
f	190	190	190
n	406	406	406
u	130	130	130
M 1	20/50	20/50	20/50
M 2	40	40	40

Wall sockets

Multi-Contact =
high contact pressure - easy withdrawal,
internal fixing,
top cable entry: 1 x M 50 and 1 x M 20,
bottom cable entry: 2 x M 40,
with terminal block set 3, 4 and 5 x 50 mm²,
OK = without terminal block set,
IP 67



Multi-Contact

Since more than 30 years all 125 A devices come with multi contacts.

They provide for **easy plugging and withdrawing** and **constant contact pressure** over the years.

The multi contact ring, consisting of 13 lamellas, transmits 28 A per lamella, i.e. the transition from pin to sleeve is designed for 364 A - **high security**. The lamellas are spring-mounted and thus **self-cleaning**.

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h	3-pole 10 h	4-pole 10 h	5-pole 10 h	3-pole 2 h	4-pole 2 h	5-pole 2 h	



Part numbers																			
16	3	119 304	119 306	119 309															5
16	4	119 404	119 409	119 406	119 407	119 410	119 402												5
16	5	119 504	119 509	119															5
32	3	139 304	139 306	139 309															5
32	4	139 404	139 409	139 406	139 407	139 410	139 402												5
32	5	139 504	139 509	139															5
63	3	168 304	168 306	168 309															1
63	4	168 404	168 409	168 406	168 407	168 410	168 402												1
63	5	168 504	168 509	168															1
63	3	169 304	169 306	169 309															2
63	4	169 404	169 409	169 406	169 407	169 410	169 402												2
63	5	169 504	169 509	169															2
125	3	178 304	178 306	178 309															1
125	4	178 404	178 409	178 406	178 407	178 410	178 402												1
125	5	178 504	178 509	178															1
125	3	178 304 OK	178 306 OK	178 309 OK															1
125	3	179 304	179 306	179 309															1
125	4	179 404	179 409	179 406	179 407	179 410	179 402												1
125	5	179 504	179 509	179															1
125	3	179 304 OK	179 306 OK	179 309 OK															1
125	4	179 404 OK	179 409 OK	179 406 OK	179 407 OK	179 410 OK	179 402 OK												1
125	5	179 504 OK	179 509 OK	179 OK															1



139



168



169



178



179

3

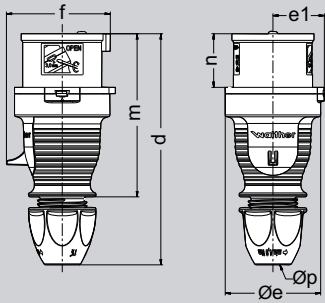


The wall socket 125 A, type 179, is provided with a **terminal block set for quick connection**. If you would like to order the wall socket without terminal block set then please add the suffix 'OK' to the part number.

The here listed 63 A + 125 A wall sockets are also available with **pilot contact**. To order them, simply add a "P" behind the standard part number.

Availability of blue printed (or not listed) frequencies and voltages up to 690 V on request!

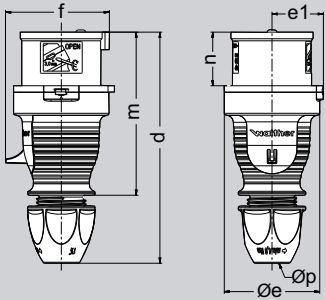
Plugs: screwless / with screw terminals



Amp.	16	16	32	32	32
Poles	4	5	3	4	5
d	150-161	150-161	173-185	173-185	174-183
Øe	65	65	72	72	72
e1	35	35	38,5	38,5	38,5
f	63	71	75	75	83
m	111	111	128	128	128
n	37	37	45,5	45,5	45,5
Øp	7,5 - 18,5	7,5 - 18,5	10 - 22,5	10 - 22,5	10 - 22,5

Screwless plugs, with insulation displacement connection,
with exterior cable gland,
IP 44 ▲

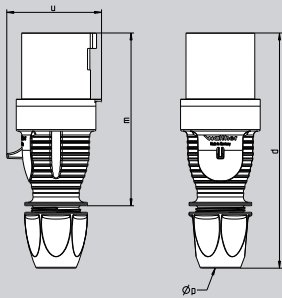
Conductor cross sections:
16 A: 1 - 2,5 mm² / 32 A: 2,5 - 6 mm²
Cable diameters:
16 A: 7,5 - 18,5 mm / 32 A: 10 - 22,5 mm



Amp.	16	16	32	32	32
Poles	4	5	3	4	5
d	150-161	150-161	173-185	173-185	174-183
Øe	65	65	72	72	72
e1	35	35	38,5	38,5	38,5
f	63	71	75	75	83
m	111	111	128	128	128
n	37	37	45,5	45,5	45,5
Øp	7,5 - 18,5	7,5 - 18,5	10 - 22,5	10 - 22,5	10 - 22,5

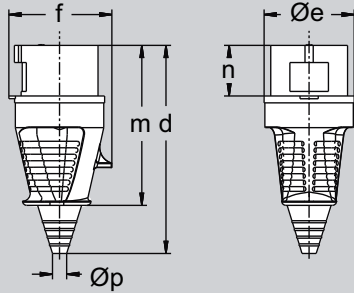
Plugs, screw terminal connection,
with exterior cable gland,
IP 44 ▲

Conductor cross sections:
16 A: 1 - 2,5 mm² / 32 A: 2,5 - 6 mm²
Cable diameters:
16 A: 7,5 - 18,5 mm / 32 A: 10 - 22,5 mm



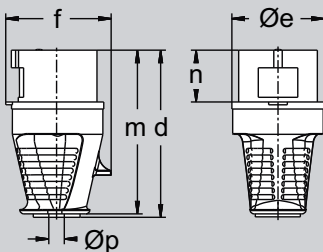
Amp.	63		
Poles	3	4	5
d	246	246	246
u	95	95	95
m	174	174	174
Øp	14-33	14-33	14-33

Plugs, screw terminal connection,
with exterior cable gland,
IP 44 ▲



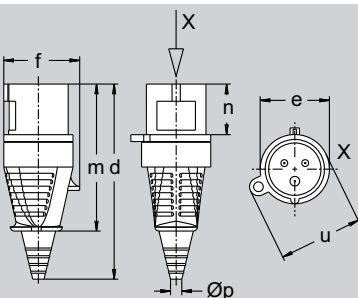
Amp.	16	63		
Poles	3	3	4	5
d	143	252	252	252
Øe	51	81	81	81
f	60	97	97	97
m	108	192	192	192
n	37	67	67	67
Øp	7/13	15/33	15/33	15/33

Plugs, screw terminal connection,
with flexible cable entry,
IP 44 ▲



Amp.	16
Poles	3
d	111
Øe	51
f	60
m	108
n	37
Øp	8/15

Plugs, screw terminal connection,
with inverted cable entry,
IP 44 ▲



Amp.	16
Poles	3
d	143
e	51
f	60
m	108
n	37
Øp	7/13
u	61

Plugs, screw terminal connection,
with flexible cable entry,
with eye for padlock, for locking with panel
socket 512 306, 512 304 and 512 309,
IP 44 ▲

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h	3-pole 10 h	4-pole 10 h	5-pole 10 h	3-pole 2 h	4-pole 2 h	5-pole 2 h	



Part numbers

Ampère	Poles	110 V	230 V	400 V	500 V	> 50 - 500 V	> 50 - 500 V over	
16	4	210 404 SL	210 409 SL	210 406 SL	210 407 SL	210 410 SL	210 402 SL	10/60
16	5	210 504 SL	210 509 SL	210 SL				10/60
32	3	230 304 SL	230 306 SL	230 309 SL				10/60
32	4	230 404 SL	230 409 SL	230 406 SL	230 407 SL	230 410 SL	230 402 SL	10/60
32	5	230 504 SL	230 509 SL	230 SL				10/60
16	4	210 404	210 409	210 406	210 407	210 410	210 402	10
16	5	210 504	210 509	210				10/60
32	3	230 304	230 306	230 309				10
32	4	230 404	230 409	230 406	230 407	230 410	230 402	10
32	5	230 504	230 509	230				10/60
63	3	262 304	262 306	262 309				5
63	4	262 404	262 409	262 406	262 407	262 410	262 402	5
63	5	262 504	262 509	262				5
63	5			262 Ni				5
16	3	210 304	210 306	210 309				10
16	5			210 Ni				10
32	5			230 Ni				10
63	3	260 304	260 306	260 309				5
63	4	260 404	260 409	260 406	260 407	260 410	260 402	5
63	5	260 504	260 509	260				5
63	5			260 Ni				5
16	3	215 304	215 306	215 309				10
16	3	212 304	212 306	212 309				10



210SL



230



262



260



215 306



212 306

4

Plugs: screwless / with screw terminals

Amp.	16	32
Poles	5	5
d	153	181
Øe	65	72
f	75	88
m	117	138
n	37	46
Øp	8/21	11/24

Phase inverters, screw terminal connection, with flexible cable entry, IP 44 ⚠

Amp.	16	32
Poles	5	5
d	131	155
Øe	65	73
f	75	88
m	112	133
n	37	46
Øp	7,5 - 14,5	10 - 19,5

Phase inverters, screw terminal connection, with trumpet gland, IP 44 ⚠

Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
d	123	131	131	155	155	155	240	240	240
Øe	51	65	65	73	73	73	81	81	81
f	60	68	75	79	79	88	97	97	97
m	118	112	112	133	133	133	192	192	192
n	37	37	37	46	46	46	67	67	67
Øp	7,5-14,5	7,5-14,5	7,5-14,5	10-19,5	10-19,5	10-19,5	18-34,5	18-34,5	18-34,5

Plugs, screw terminal connection, with trumpet gland, IP 44 ⚠

Amp.	16
Poles	3
d	126
m	110
n	37
u	72
Øp	7,5-14,5

Plugs, screw terminal connection, with trumpet gland, IP 67 💧💧

Amp.	16	16	32	32
Poles	4	5	3 / 4	5
d	150-161	150-161	174-183	174-183
Øe	Ø 65	Ø 65	Ø 72	Ø 72
m	111	111	127	127
n	36,5	36,5	45,5	45,5
Øu	Ø 81	Ø 89	Ø 95	Ø 100
Øp	7,5-18,5	7,5-18,5	10-22,5	10-22,5

Plugs, screw terminal connection, with cable gland, IP 67 💧💧

or

Plugs, screwless (SL) with insulation displacement connection, with cable gland, IP 67 💧💧

Amp.	16			32		
Poles	3	4	5	3	4	5
d	85	98	98	115	115	115
e	50,3	64,3	64,3	72	72	72
f	70	86	86	96	96	100
n	37	37	37	45,8	45,8	45,8
p	8/15	10/16,5	10/16,5	11/22	11/22	11/22

mondo angled plug, screw terminal connection, back shell RAL 7035 light grey, IP 44 ⚠

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h	3-pole 10 h	4-pole 10 h	5-pole 10 h	3-pole 2 h	4-pole 2 h	5-pole 2 h	



Part numbers

16	5			210 PH																			
16	5			210 PH Ni																			
32	5			230 PH																			
32	5			230 PH Ni																			



16	5			211 PH																			
16	5			211 PH Ni																			
32	5			231 PH																			
32	5			231 PH Ni																			



16	3	211 304	211 306	211 309																			
16	4	211 404	211 409	211 406		211 407	211 410	211 402															
16	5	211 504	211 509	211																			
16	5			211 Ni																			
32	3	231 304	231 306	231 309																			
32	4	231 404	231 409	231 406		231 407	231 410	231 402															
32	5	231 504	231 509	231																			
32	5			231 Ni																			
63	3	261 304	261 306	261 309																			
63	4	261 404	261 409	261 406		261 407	261 410	261 402															
63	5	261 504	261 509	261																			
63	5			261 Ni																			



16	3	219 304	219 306	219 309																			
16	5			219 Ni																			
32	5			239 Ni																			



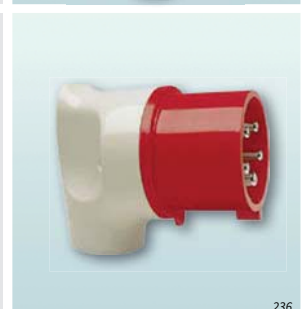
16	4	219 404	219 409	219 406		219 407	219 410	219 402															
16	5	219 504	219 509	219																			
32	3	239 304	239 306	239 309																			
32	4	239 404	239 409	239 406		239 407	239 410	239 402															
32	5	239 504	239 509	239																			



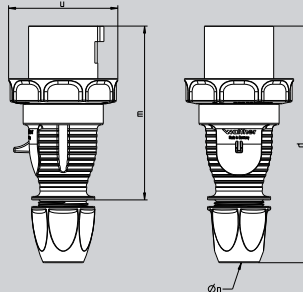
The plugs listed here are also available as **screwless version** with insulation displacement connection. To order a plug as screwless version, just add "SL" behind the part number.

16	3	216 304	216 306	216 309																			
16	4	216 404	216 409	216 406		216 407	216 410	216 402															
16	5	216 504	216 509	216																			
32	3	236 304	236 306	236 309																			
32	4	236 404	236 409	236 406		236 407	236 410	236 402															
32	5	236 504	236 509	236																			

Also available in **pearl white** and **clear white**:
For pearl white add "PW" behind the part number, for clear white "RW"

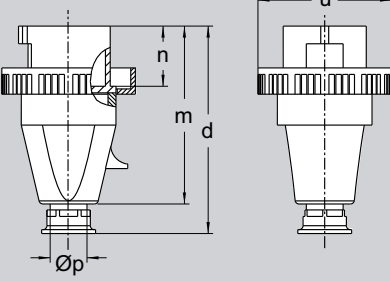


Plugs: screwless / with screw terminals



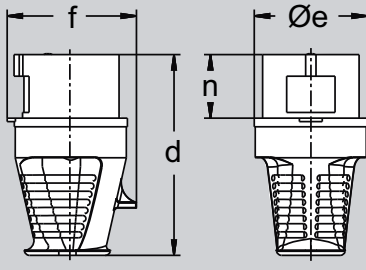
Amp.	63		
Poles	3	4	5
d	246	246	246
u	109	109	109
m	174	174	174
Øp	14-33	14-33	14-33

Plugs, screw terminal connection, with cable gland, IP 67 ⚡⚡



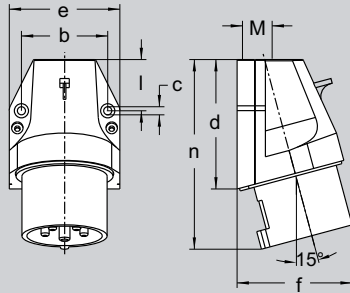
Amp.	63			125		
Poles	3	4	5	3	4	5
d	243	243	243	315	315	315
m	195	195	195	258	258	258
n	67	67	67	75,5	75,5	75,5
u	110	110	110	130	130	130
Øp	18-35	18-35	18-35	24-45	24-45	24-45

Plugs, screw terminal connection, with trumpet gland, IP 67 ⚡⚡



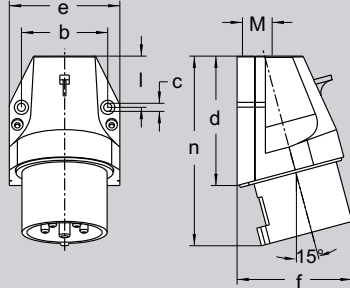
Amp.	16		32		63	
Poles	4	5	4	5	4	5
d	65	65	155	72	240	81
Øe	58	65	72	72	81	81
f	68	75	79	88	97	97
n	37	37	46	46	67	67

Phase sequence control plugs, IP 44 ⚡



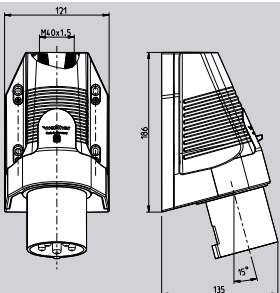
Amp.	16			32		
Poles	3	4	5	3	4	5
b	45,5	60	60	60	60	60
c	5,3	5,3	5,3	5,3	5,3	5,3
d	74	80	80	97	97	97
e	60	74	74	82	82	82
f	60	73	73	80	80	86
l	28	31	31	45	45	45
n	110	117	117	141	141	141
M	20	20	20	25	25	25

Wall mount appliance inlets, external fixing, 1 top cable entry, IP 44 ⚡



Amp.	16			32		
Poles	3	4	5	3	4	5
b	45,5	60	60	60	60	60
c	5,3	5,3	5,3	5,3	5,3	5,3
d	74	80	80	97	97	97
e	60	74	74	82	82	82
f	60	73	73	80	80	86
l	28	31	31	45	45	45
n	110	117	117	141	141	141
M	20	20	20	25	25	25

Wall mount appliance inlets, as phase inverters, external fixing, 1 top cable entry, IP 44 ⚡



Amp.	63		
Poles	3	4	5
d	186	186	186
M	40	40	40

Wall mount appliance inlets, external fixing, 1 top cable entry, contacts not nickel-plated, IP 67 ⚡⚡

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h	3-pole 10 h	4-pole 10 h	5-pole 10 h	3-pole 2 h	4-pole 2 h	5-pole 2 h	



Part numbers

Ampère	Poles	110 V	230 V	400 V	500 V	> 50 - 500 V	> 50 - 500 V over	
63	3	268 304	268 306	268 309				5
63	4	268 404	268 409	268 406	268 407	268 410	268 402	5
63	5	268 504	268 509	268				5
Part numbers								
63	3	269 304	269 306	269 309				5
63	4	269 404	269 409	269 406	269 407	269 410	269 402	5
63	5	269 504	269 509	269				5
63	5			269 Ni				5
125	3	279 304	279 306	279 309				2
125	4	279 404	279 409	279 406	279 407	279 410	279 402	2
125	5	279 504	279 509	279				2
125	5			279 Ni				2
for voltage ranges of 110 V - 690 V								
16	4			210 406 DF				10
16	5			210 DF				10
32	4			230 406 DF				10
32	5			230 DF				10
63	4			260 406 DF				10
63	5			260 DF				5
16	3	610 304	610 306	610 309				10
16	4	610 404	610 409	610 406	610 407	610 410	610 402	10
16	5	610 504	610 509	610				10/60
16	3			610 Ni				10
32	3	630 304	630 306	630 309				10
32	4	630 404	630 409	630 406	630 407	630 410	630 402	10
32	5	630 504	630 509	630				10
32	5	630 504	630 509	630 Ni				10
16	5			610 PH				10
16	5			610 PH Ni				10
16	5			611 PH Ni				10
32	5			630 PH				10
32	5			630 PH Ni				10
32	5			631 PH Ni				10
63	3	660 304	660 306	660 309				2
63	4	660 404	660 409	660 406	660 407	660 410	660 402	2
63	5	660 504	660 509	660				2



268



269



230DF



610



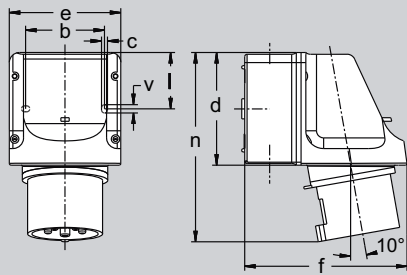
610 Ni



660

4

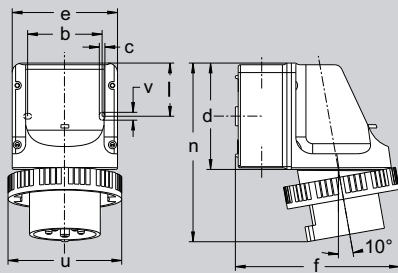
Plugs: screwless / with screw terminals



Amp.	16		32		
Poles	4	5	3	4	5
b	66,5	66,5	66,5	66,5	66,5
c	5	5	5	5	5
d	96	96	96	96	96
e	95	95	95	95	95
f	140	140	140	140	140
l	47,5	47,5	47,5	47,5	47,5
n	151	151	160	160	160
v	7	7	7	7	7
M	20/25	20/25	20/25	20/25	20/25

Wall mount appliance inlets,

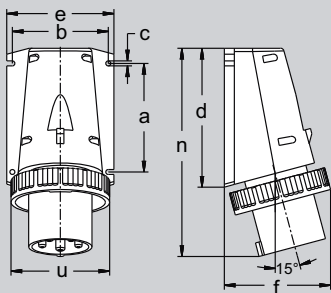
internal fixing,
2 knock-out cable entries on top and bottom,
1 knock-out entry in the back wall,
IP 44 ▲



Amp.	16			32		
Poles	3	4	5	3	4	5
b	66,5	66,5	66,5	66,5	66,5	66,5
c	5	5	5	5	5	5
d	96	96	96	96	96	96
e	95	95	95	95	95	95
f	140	140	140	147	147	150
l	47,5	47,5	47,5	47,5	47,5	47,5
n	154	154	154	164	164	164
u	72	81	88	96	96	103
v	7	7	7	7	7	7
M	20/25	20/25	20/25	20/25	20/25	20/25

Wall mount appliance inlets,

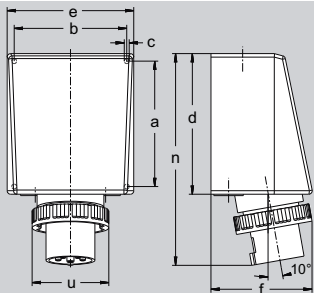
internal fixing,
2 knock-out cable entries on top and bottom
1 knock-out entry in the back wall
IP 67 ●●



Amp.	63		
Poles	3	4	5
a	136	120	120
b	104	106	106
c	6	5,6	5,6
d	170	152	152
e	118	118	118
f	171	118	118
n	250	232	232
u	113	113	113
M	40	40	40

Wall mount appliance inlets,

external fixing,
1 top cable entry,
IP 67 ●●

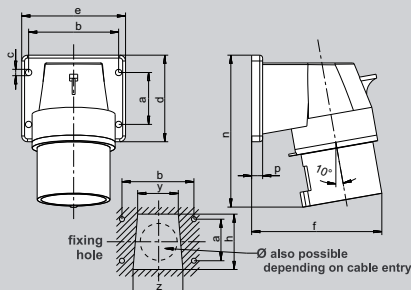


Amp.	125		
Poles	3	4	5
a	240	240	240
b	200	200	200
c	7	7	7
d	263	263	263
e	220	220	220
f	175	175	175
n	390	390	390
u	130	130	130
M1	50/20	50/20	50/20
M2	40	40	40

Wall mount appliance inlets,

internal fixing,
1 top cable entry M 50 and 1 x M 20,
2 bottom cable entries M 40,
3-pole: with terminal block set 3 x 50 mm²,
4-pole: with terminal block set 4 x 50 mm²,
5-pole: with terminal block set 5 x 50 mm²,
IP 67 ●●

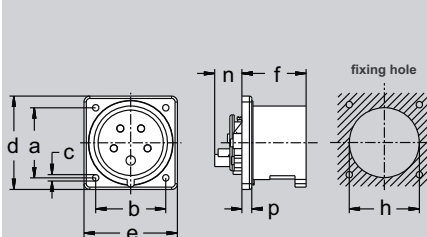
OK = without terminal block set



Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
a	30	40	40	45	45	45	90	90	90
b	55	68	68	78	78	78	90	90	90
c	5,5	5,5	5,5	5,5	5,5	5,5	6,2	6,2	6,2
d	52	66	66	75	75	75	114	114	114
e	65	80	80	90	90	90	114	114	114
f	72	90	92	103	103	103	116	116	116
h	38	52	52	60	60	60	70	70	70
n	97	110	110	129	129	129	185	185	185
p	9,5	9,5	9,5	9,5	9,5	9,5	6	6	6
y	30	38	38	44	44	44	56	56	56
z	36	46	46	54	54	54	65	65	65

Panel mount appliance inlets,

angled, with screwed flange enclosure,
IP 44 ▲



Amp.	16			32			Art. 600 ... :
Poles	3	4	5	3	4	5	Amp. 16
a	47	60	60	60	60	60	Poles 3
b	47	60	60	60	60	60	a 60
c	5,5	5,5	5,5	5,5	5,5	5,5	b 60
d	62	80	80	80	80	80	c 5,5
e	62	80	80	80	80	80	d 75
f	47	47	47	56	56	56	e 75
h	50	67	67	71	71	71	f 47
n	22	22	22	22	22	22	h 50
p	8,5	8,5	8,5	8,5	8,5	8,5	n 22
							p 8,5

Panel mount appliance inlets,

straight, screwed flange,
IP 44 ▲

- a retaining means
has to be fitted on the device -

*) the 3 x 16 A version is alternatively
available with 75 x 75 mm flange

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h	3-pole 10 h	4-pole 10 h	5-pole 10 h	3-pole 2 h	4-pole 2 h	5-pole 2 h	



Part numbers

16	4	616 404	616 409	616 406	616 407	616 410	616 402	5	
16	5	616 504	616 509	616				5	
32	3	636 304	636 306	636 309				5	
32	4	636 404	636 409	636 406	636 407	636 410	636 402	5	
32	5	636 504	636 509	636				5	
16	3	618 304	618 306	618 309	upper part without retaining means			5	
16	4	618 404	618 409	618 406	618 407	618 410	618 402	5	
16	5	618 504	618 509	618				5	
32	3	638 304	638 306	638 309				5	
32	4	638 404	638 409	638 406	638 407	638 410	638 402	5	
32	5	638 504	638 509	638				5	
63	3	668 304	668 306	668 309				2	
63	4	668 404	668 409	668 406	668 407	668 410	668 402	2	
63	5	668 504	668 509	668				2	
125	3	678 304	678 306	678 309				1	
125	4	678 404	678 409	678 406	678 407	678 410	678 402	1	
125	5	678 504	678 509	678				1	
125	3	678 304 OK	678 306 OK	678 309 OK				1	
125	4	678 404 OK	678 409 OK	678 406 OK	678 407 OK	678 410 OK	678 402 OK	1	
125	5	678 504 OK	678 509 OK	678 OK				1	
16	3	611 304	611 306	611 309				10	
16	4	611 404	611 409	611 406	611 407	611 410	611 402	10	
16	5	611 504	611 509	611				10	
32	3	631 304	631 306	631 309				10	
32	4	631 404	631 409	631 406	631 407	631 410	631 402	10	
32	5	631 504	631 509	631				10	
63	3	661 304	661 306	661 309				5	
63	4	661 404	661 409	661 406	661 407	661 410	661 402	5	
63	5	661 504	661 509	661				5	
16	3	600 304 *	600 306 *	600 309 *				10	
16	3	615 304	615 306	615 309				10	
16	4	615 404	615 409	615 406	615 407	615 410	615 402	10	
16	5	615 504	615 509	615				10	
32	3	635 304	635 306	635 309				10	
32	4	635 404	635 409	635 406	635 407	635 410	635 402	10	
32	5	635 504	635 509	635				10	

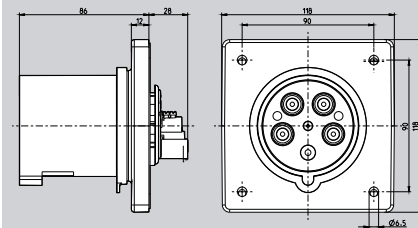
Plugs: screwless / with screw terminals

Amp.	16	32
Poles	5	5
a	60	60
b	60	60
c	5,5	5,5
d	80	80
e	80	80
f	47	56
h	67	71
n	22	22
p	8,5	8,5

Panel mount appliance inlets as phase inverters

straight, screwed flange, IP 44 ▲

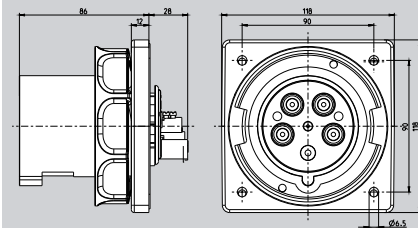
- a retaining means has to be fitted on the device -



Panel mount appliance inlets as phase inverters

straight, screwed flange, IP 44 ▲

- a retaining means has to be fitted on the device -



Panel mount appliance inlets as phase inverters

straight, screwed flange, IP 44 ▲

- a retaining means has to be fitted on the device -

Amp.	125		
Poles	3	4	5
a	104	104	104
b	104	104	104
c	6,5	6,5	6,5
d	130	130	130
e	130	130	130
f	93	93	93
h	90	90	90
n	56	56	56
p	7,5	7,5	7,5
u	130	130	130

Panel mount appliance inlets,

straight, screwed flange, IP 67 ●●

Amp.	16			32			63		
	3	4	5	3	4	5	3	4	5
a	30	40	40	45	45	45	90	90	90
b	55	68	68	78	78	78	90	90	90
c	5,5	5,5	5,5	5,5	5,5	5,5	6,2	6,2	6,2
d	52	66	66	75	75	75	114	114	114
e	65	80	80	90	90	90	114	114	114
f	81	99	103	111	111	117	129	129	129
h	38	52	52	60	60	60	90	90	90
n	98	111	113	131	131	131	184	184	184
p	9,5	9,5	9,5	9,5	9,5	9,5	6	6	6
u	72	81	88	96	96	103	110	110	110
y	30	38	38	44	44	44	56	56	56
z	36	46	46	54	54	54	65	65	65

Panel mount appliance inlets,

angled, screwed flange enclosure, IP 67 ●●

Amp.	16	32
Poles	5	5
a	40	45
b	68	78
c	5,5	5,5
d	66	75
e	80	90
f	92	103
h	52	60
n	110	129
p	9,5	9,5
y	38	44
z	46	54

Panel mount appliance inlets as phase inverters,

angled, screwed flange enclosure, IP 44 ▲

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h	3-pole 10 h	4-pole 10 h	5-pole 10 h	3-pole 2 h	4-pole 2 h	5-pole 2 h	



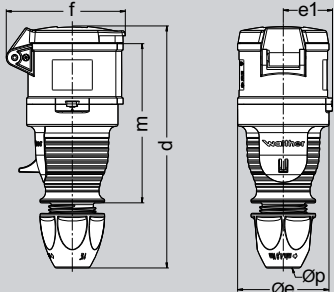
Part numbers

Ampère	Poles	110 V	230 V	400 V	500 V	> 50 - 500 V	> 50 - 500 V over	Notes
16 32	5			615 PH 635 PH				10 10
63 63 63	3 4 5	665304 665404 665504	665306 665409 665509	665309 665406 665	665407	665410	665402	5 5 5
63 63 63	3 4 5	667304 667404 667504	667306 667409 667509	667309 667406 667	667407	667410	667402	5 5 5
125 125 125 125	3 4 5 5	679 304 679 404 679 504	679 306 679 409 679 509	679 309 679 406 679 679 Ni	679 407	679 410	679 402	2 2 2 2
16 16 16 16 32 32 32 32 63 63 63 63	3 4 5 5 3 4 5 5 3 4 5 5	619 304 619 404 619 504	619 306 619 409 619 509	619 309 619 406 619 619 Ni 639 309 639 406 639 639 Ni 669 309 669 406 669 669 Ni	619 407 639 407 669 407	619 410 639 410 669 410	619 402 639 402 669 402	10 10 10 10 5 5 5 5 5 5 5 5
16 32	5 5			611 PH 631 PH				10 10



4

Couplers: screwless / with screw terminals

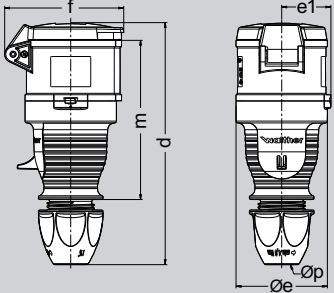


Amp.	16	16	32	32	32
Poles	4	5	3	4	5
d	165-176	165-176	189-199	189-199	189-199
Øe	65	65	72	72	72
e1	35	35	38,5	38,5	38,5
f	77	85	91	91	97
m	114	114	130	130	130
Øp	7,5 - 18,5	7,5 - 18,5	10 - 22,5	10 - 22,5	10 - 22,5

Couplers, screwless, with insulation displacement connection, with exterior cable gland, IP 44

Conductor cross sections:
16 A: 1 - 2,5 mm² / 32 A: 2,5 - 6 mm²

Cable diameters:
16 A: 7,5 - 18,5 mm / 32 A: 10 - 22,5 mm

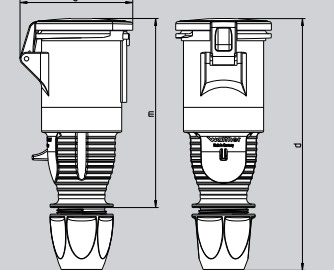


Amp.	16	16	32	32	32
Poles	4	5	3	4	5
d	165-176	165-176	189-199	189-199	189-199
Øe	65	65	72	72	72
e1	35	35	38,5	38,5	38,5
f	77	85	91	91	97
m	114	114	130	130	130
Øp	7,5 - 18,5	7,5 - 18,5	10 - 22,5	10 - 22,5	10 - 22,5

Couplers, screw terminal connection, with exterior cable gland, IP 44

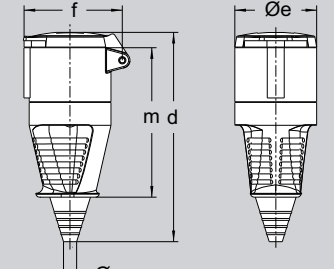
Conductor cross sections:
16 A: 1 - 2,5 mm² / 32 A: 2,5 - 6 mm²

Cable diameters:
16 A: 7,5 - 18,5 mm / 32 A: 10 - 22,5 mm



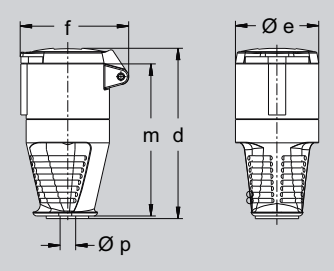
Amp.	63		
Poles	3	4	5
d	261	261	261
u	113	113	113
m	189	189	189
Øp	14-33	14-33	14-33

Couplers, screw terminal connection, with exterior cable gland, IP 44



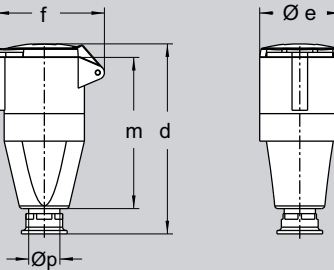
Amp.	16	63		
Poles	3	3	4	5
d	154	266	266	266
Øe	51	96	96	96
f	68	114	114	114
m	109	196	196	196
Øp	7/13	15/33	15/33	15/33

Couplers, screw terminal connection, with flexible cable entry, IP 44



Amp.	16
Poles	3
d	121
Øe	51
f	68
m	108
Øp	8/15

Couplers, screw terminal connection, with inverted cable entry, IP 44



Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
d	135	151	151	171	171	171	255	255	255
Øe	51	65	65	72	72	72	96	96	96
f	68	85	85	91	91	98	114	114	114
m	110	113	113	136	136	136	194	194	194
Øp	7,5-14,5	7,5-14,5	7,5-14,5	10-19,5	10-19,5	10-19,5	18-34,5	18-34,5	18-34,5

Couplers, screw terminal connection, with trumpet gland, IP 44

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h	3-pole 10 h	4-pole 10 h	5-pole 10 h	3-pole 2 h	4-pole 2 h	5-pole 2 h	



Part numbers

Ampère	Poles	110 V	230 V	400 V	500 V	> 50 - 500 V	> 50 - 500 V over	Lead time
16	4	310 404 SL	310 409 SL	310 406 SL	310 407 SL	310 410 SL	310 402 SL	10/60
16	5	310 504 SL	310 509 SL	310SL				10/60
32	3	330 304 SL	330 306 SL	330 309 SL				10/60
32	4	330 404 SL	330 409 SL	330 406 SL	330 407 SL	330 410 SL	330 402 SL	10/60
32	5	330 504 SL	330 509 SL	330 SL				10/60
16	4	310 404	310 409	310 406	310 407	310 410	310 402	10
16	5	310 504	310 509	310				10/60
32	3	330 304	330 306	330 309				10
32	4	330 404	330 409	330 406	330 407	330 410	330 402	10
32	5	330 504	330 509	330				10/60
63	3	362 304	362 306	362 309				5
63	4	362 404	362 409	362 406	362 407	362 410	362 402	5
63	5	362 504	362 509	362				5
63	5			362 Ni				5
16	3	310 304	310 306	310 309				10/60
63	3	360 304	360 306	360 309				5
63	4	360 404	360 409	360 406	360 407	360 410	360 402	5
63	5	360 504	360 509	360				5
63	5			360 Ni				5
16	3	315 304	315 306	315 309				10
16	3	311 304	311 306	311 309				10
16	4	311 404	311 409	311 406	311 407	311 410	311 402	10
16	5	311 504	311 509	311				10
16	5			311 Ni				10
32	3	331 304	331 306	331 309				10
32	4	331 404	331 409	331 406	331 407	331 410	331 402	10
32	5	331 504	331 509	331				10
32	5			331 Ni				10
63	3	361 304	361 306	361 309				5
63	4	361 404	361 409	361 406	361 407	361 410	361 402	5
63	5	361 504	361 509	361				5
63	5			361 Ni				5



330SL



330



362



360



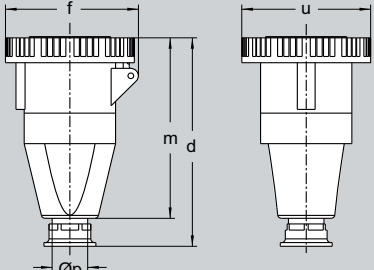
315 306



331

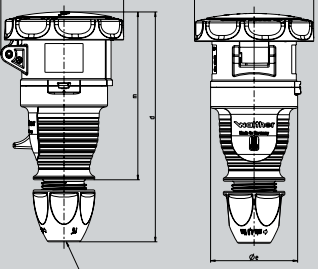
The here listed 63A couplers are also available with **pilot contact**.
To order them, simply add a "P" behind the standard part number.
Availability of blue printed (or not listed) frequencies and voltages up to 690 V on request!

Couplers: screwless / with screw terminals



Amp.	63				125		
Poles	3	4	5	3	4	5	
d	136	255	255	332	332	332	
f	78	117	117	130	130	130	
m	121	206	206	275	275	275	
u	72	110	110	130	130	130	
Øp	7,5 - 14,5	18 - 34,5	18 - 34,5	24 - 45	24 - 45	24 - 45	

Couplers, screw terminal connection,
with trumpet gland,
125 A couplers with Multi-Contact
IP 67

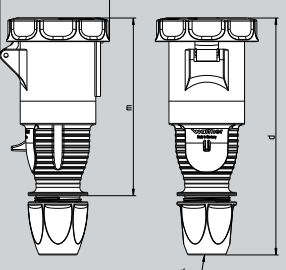


Amp.	16	16	32	32
Poles	4	5	3 / 4	5
d	150-161	150-161	174-183	174-183
Ø e	Ø 65	Ø 65	Ø 72	Ø 72
f	85	92	95	104
m	125	125	142	142
Ø u	Ø 81	Ø 89	Ø 95	Ø 100
Ø p	7,5 - 18,5	7,5 - 18,5	10 - 22,5	10 - 22,5

Couplers, screw terminal connection,
with exterior cable gland,
IP 67

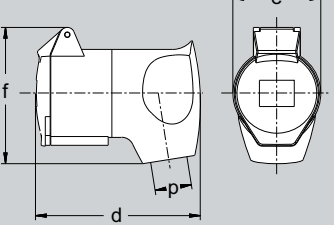
or

Couplers, screwless („SL“),
with insulation displacement connection,
with exterior cable gland,
IP 67



Amp.	63		
Poles	3	4	5
d	261	261	261
u	116	116	116
m	189	189	189
Øp	14-33	14-33	14-33

Couplers, screw terminal connection,
with exterior cable gland,
IP 67



Amp.	16
Poles	3
d	95
e	50,3
f	80
p	8/13

Angled couplers,
screw terminal connection,
IP 44




A **holding plate** allows you to suspend a **plug/coupler with exterior cable gland** from the ceiling.

314 500 = holding plate for **16 A** plug/coupler

334 500 = holding plate for **32 A** plug/coupler



314 500

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h	3-pole 10 h	4-pole 10 h	5-pole 10 h	3-pole 2 h	4-pole 2 h	5-pole 2 h	



Part numbers

16	3	319 304	319 306	319 309					10
16	5			319 Ni					10
32	5			339 Ni					10
63	3	369 304	369 306	369 309					5
63	4	369 404	369 409	369 406	369 407	369 410	369 402		5
63	5	369 504	369 509	369 Ni					5
125	3	379 304	379 306	379 309					2
125	4	379 404	379 409	379 406	379 407	379 410	379 402		2
125	5	379 504	379 509	379 Ni					2



5

16	4	319 404	319 409	319 406	319 407	319 410	319 402		10
16	5	319 504	319 509	319					10
32	3	339 304	339 306	339 309					10
32	4	339 404	339 409	339 406	339 407	339 410	339 402		10
32	5	339 504	339 509	339					10



Couplers with new design and cable gland. Additionally available as **screwless version** with insulation displacement connection. To order a coupler as **screwless version**, just add "SL" behind the part number.

63	3	368 304	368 306	368 309					10
63	4	368 404	368 409	368 406	368 407	368 410	368 402		10
63	5	368 504	368 509	368					10



16	3	316 304	316 306	316 309					10
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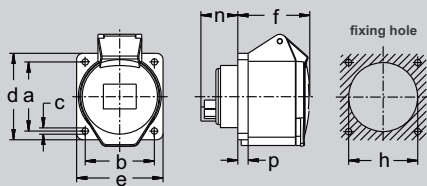


Padlock
for locking IP 67 plugs and couplers

16 A, 4 and 5 pole and
32 A, 3, 4 and 5 pole

Part no. 501 1



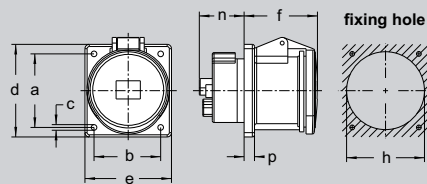


Amp.	16			32		
Poles	3	4	5	3	4	5
a	60	60	60	60	60	60
b	60	60	60	60	60	60
c	5,5	5,5	5,5	5,5	5,5	5,5
d	75	75	75	75	75	75
e	75	75	75	75	75	75
f	52	53	53	65	65	65
h	46	60	60	60	60	60
n	28	28	28	27	27	27
p	6	9	9	9	9	9

Suitable blind flange, part no. 10015:	
a	60
b	60
c	5,2
d	75
e	75
p	6

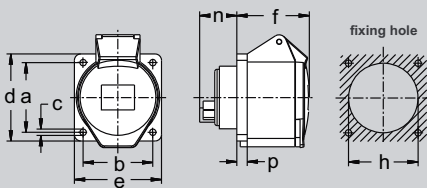
Panel sockets, straight,
flange dimensions 75 x 75,
also suitable for cable ducts, mounting
dimensions 60 x 60 mm,
fingerproof acc. to BGV A3, IP 44 ▲

* also available as screwless version mit IDC
terminals: simply add "SL" to the part no.,
e.g. 410SL



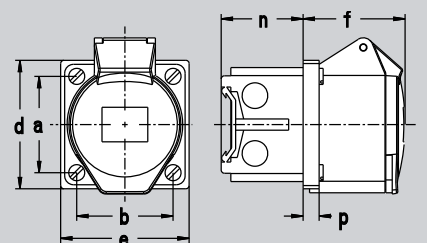
Amp.	63		
Poles	3	4	5
a	85	85	85
b	77	77	77
c	6,5	6,5	6,5
d	107	107	107
e	100	100	100
f	85	85	85
h	90	90	90
n	52	52	52
p	12	12	12

Panel sockets, straight,
flange dimensions 107 x 100,
fingerproof acc. to BGV A3,
IP 44 ▲



Amp.	16
Poles	3
a	47
b	47
c	5,5
d	62
e	62
f	52
h	46
n	28
p	6

Panel sockets, straight,
flange dimensions 62 x 62,
fingerproof acc. to BGV A3,
IP 44 ▲



Amp.	16			32		
Poles	3	4	5	3	4	5
a	60	60	60	60	60	60
b	60	60	60	60	60	60
d	80	80	80	80	80	80
e	80	80	80	80	80	80
f	56	59	59	62	69	69
n	52	52	52	52	52	52
p	10	10	10	10	10	10

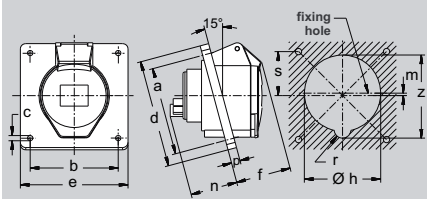
Panel sockets, straight,
for switch cabinet installation,
junction box mountable on DIN-rail,
occupies 4,5 MCB module widths,
IP 44 ▲

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	



Part numbers										
16	3	411 304	411 306	411 309					10	
16	4	410 404	410 409	410 406	410 407	410 410	410 402	10		
16	5	410 504*	410 509*	410*				10		
16	5			410 Ni				10		
32	3	430 304	430 306	430 309				10		
32	4	430 404	430 409	430 406	430 407	430 410	430 402	10		
32	5	430 504*	430 509*	430*				10		
32	5			430 Ni				10		
63	3	460 304	460 306	460 309				5		
63	4	460 404	460 409	460 406	460 407	460 410	460 402	5		
63	5	460 504	460 509	460				5		
63	5			460 Ni				5		
16	3	410 304	410 306	410 309				10/60		
16	3	411 304 VS	411 306 VS	411 309 VS				10		
16	4			410 406 VS	410 407 VS			10		
16	5	410 504 VS	410 509 VS	410 VS				10		
32	3		430 306 VS					10		
32	4			430 406 VS				10		
32	5	430 504 VS	430 509 VS	430 VS				10		

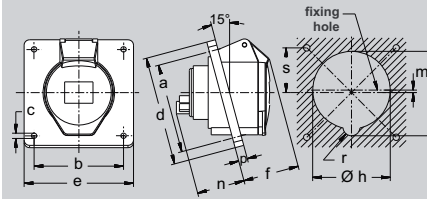
The here listed 63 A panel sockets are also available with **pilot contact**.
 To order them, simply add a "P" behind the standard part number.
Availability of blue printed (or not listed) frequencies and voltages up to 690 V on request!



Amp.	16			32		
Poles	3	4	5	3	4	5
a	47	60	60	60	60	70
b	47	60	60	60	60	60
c	5,5	5,5	5,5	5,5	5,5	5,5
d	68	75	85	90	90	95
e	62	75	75	75	75	80
f	45	51	51	52	52	56
h	51	60	68	67	67	76
m	-/-	2	2	-/-	-/-	2,5
n	41	38	38	47	47	47
p	6	9	9	9	9	9
r	6,5	7,5	8	7,5	7,5	8,5
s	-/-	-/-	30	-/-	-/-	35
y	52,5	62	-/-	71	71	-/-
z	57	64	73	76	76	83

Panel sockets, angled,
fingerproof acc. to BGV A3,
IP 44 ▲

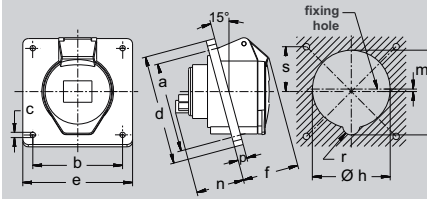
* also available as screwless version mit IDC terminals: simply add "SL" to the part no., e.g. 510SL



Amp.	16		32			63		
Poles	4	5	3	4	5	3	4	5
a	85	85	85	85	85	85	85	85
b	77	77	77	77	77	77	77	77
c	5,5	5,5	5,5	5,5	5,5	6,5	6,5	6,5
d	100	100	100	100	100	107	100	107
e	92	92	92	92	92	100	92	100
f	51	51	52	52	56	79	79	79
h	75	70	75	75	78	81	81	84
m	2	2	-/-	2,5	2,5	-/-	3	3
n	38	38	47	47	47	64	64	64
p	9	9	9	9	9	12	12	12
r	7,5	7,5	7,5	7,5	8,5	8	8	9
s	42,5	42,5	-/-	42,5	42,5	-/-	42,5	42,5
y	-/-	-/-	80	80	-/-	85	85	-/-
z	85	74	85	85	85	90	90	90

Panel sockets, angled,
fixing dimensions 85 x 77,
fingerproof acc. to BGV A3,
IP 44 ▲

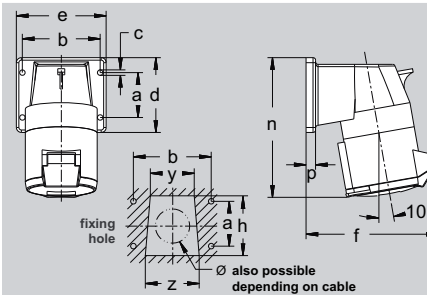
* also available as screwless version mit IDC terminals: simply add "SL" to the part no., e.g. 531SL



Amp.	16	32	63
Poles	5	5	5
a	90	90	90
b	90	90	90
c	5,5	5,5	6,5
d	110	110	114
e	110	110	114
f	51	56	79
h	70	78	86
m	2	2,5	2,5
n	38	47	64
p	9	9	12
r	7,5	8,5	10
s	45	45	45
z	74	85	94

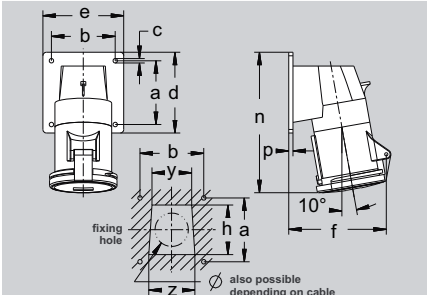
Panel sockets, angled,
fixing dimensions 90 x 90,
16 - 63 A fingerproof acc. to BGV A3,
IP 44 ▲

* also available as screwless version mit IDC terminals: simply add "SL" to the part no., e.g. 532SL



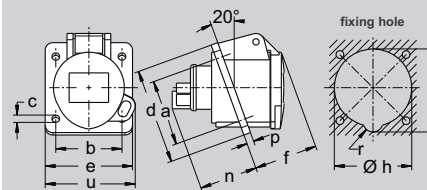
Amp.	16			32		
Poles	3	4	5	3	4	5
a	30	40	40	45	45	45
b	55	68	68	78	78	78
c	5,5	5,5	5,5	5,5	5,5	5,5
d	52	66	66	75	75	75
e	65	80	80	90	90	90
f	87	110	110	120	120	124
h	38	52	52	60	60	60
n	116	122	122	141	141	142
p	9,5	9,5	9,5	9,5	9,5	9,5
y	30	38	38	44	44	44
z	36	46	46	54	54	54

Panel sockets, angled,
with screwed flange enclosure,
IP 44 ▲



Amp.	63		
Poles	3	4	5
a	90	90	90
b	90	90	90
c	6,2	6,2	6,2
d	114	114	114
e	114	114	114
f	140	140	140
h	70	70	70
n	194	194	194
p	6	6	6
y	56	56	56
z	65	65	65

Panel sockets, angled,
with screwed flange enclosure,
IP 44 ▲



Amp.	16
Poles	3
a	47
b	47
c	5,5
d	68
e	62
f	46
h	55
n	41
p	5
r	5
u	65
z	58

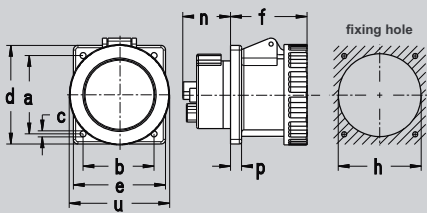
Panel sockets, angled,
with eye for padlock,
for locking with plug
212 306, 212 304 or 212 309,
IP 44 ▲

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	



Part numbers										
16	3	510 304	510 306	510 309					10	
16	4	510 404	510 409	510 406	510 407	510 410	510 402	10		
16	5	510 504*	510 509*	510*				10		
16	5			510 Ni				10		
32	3	530 304	530 306	530 309				10		
32	4	530 404	530 409	530 406	530 407	530 410	530 402	10		
32	5	530 504*	530 509*	530*				10		
32	5			530 Ni				10		
16	4	511 404	511 409	511 406	511 407	511 410	511 402	10		
16	5	511 504*	511 509*	511*				10		
32	3	531 304	531 306	531 309				10		
32	4	531 404	531 409	531 406	531 407	531 410	531 402	10		
32	5	531 504*	531 509*	531*				10		
63	3	560 304	560 306	560 309				5		
63	4	560 404	560 409	560 406	560 407	560 410	560 402	5		
63	5	560 504	560 509	560				5		
63	5			560 Ni				5		
16	5	512 504*	512 509*	512*				10		
16	5			512 Ni				10		
32	5	532 504*	532 509*	532*				10		
32	5			532 Ni				10		
63	5	562 504	562 509	562				5		
63	5			562 Ni				5		
16	3	514 304	514 306	514 309				10		
16	4	514 404	514 409	514 406	514 407	514 410	514 402	10		
16	5	514 504	514 509	514				10		
32	3	534 304	534 306	534 309				5		
32	4	534 404	534 409	534 406	534 407	534 410	534 402	5		
32	5	534 504	534 509	534				5		
63	3	564 304	564 306	564 309				5		
63	4	564 404	564 409	564 406				5		
63	5	564 504	564 509	564				5		
16	3	512 304	512 306	512 309				10		

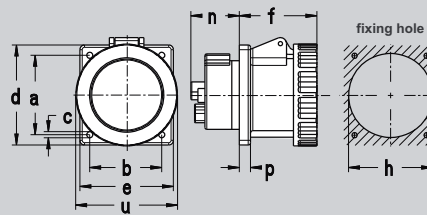
The here listed 63 A panel sockets are also available with **pilot contact**.
 To order them, simply add a "P" behind the standard part number.
Availability of blue printed (or not listed) frequencies and voltages up to 690 V on request!



Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
a	47	60	60	60	60	60	85	85	85
b	47	60	60	60	60	60	77	77	77
c	5,5	5,5	5,5	5,5	5,5	5,5	6,5	6,5	6,5
d	62	75	75	75	75	75	107	107	107
e	62	75	75	75	75	75	100	100	100
f	52	52	52	65	65	65	83	83	83
h	46	60	60	60	60	60	90	90	90
n	28	28	28	27	27	27	52	52	52
p	6	9	9	9	9	9	12	12	12
u	72	81	88	96	96	103	110	110	110

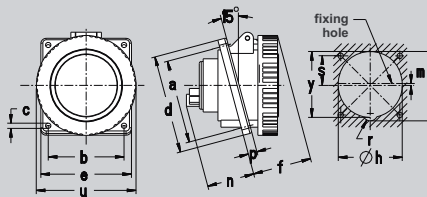
Panel sockets, straight,
fingerproof acc. to BGV A3,
IP 67

* also available as screwless version mit IDC terminals: simply add "SL" to the part no., e.g. 439SL



Amp.	125		
Poles	3	4	5
a	90	90	90
b	90	90	90
c	6,5	6,5	6,5
d	114	114	114
e	114	114	114
f	96	96	96
h	90	90	90
n	64	64	64
p	12	12	12
u	130	130	130

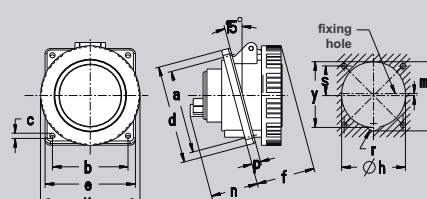
Panel sockets, straight,
with Multi-Contact,
back-of-hand proof acc. to BGV A3,
IP 67



Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
a	47	85	85	85	85	85	85	85	85
b	47	77	77	77	77	77	77	77	77
c	5,5	5,5	5,5	5,5	5,5	5,5	6,5	6,5	6,5
d	68	100	100	100	100	100	107	107	107
e	62	92	92	92	92	92	100	100	100
f	49	52	52	56	56	60	82	82	82
h	51	73	70	73	73	78	81	81	84
m	-/-	2	2	-/-	2,5	2,5	-/-	2,5	3
n	41	38	38	47	47	47	64	64	64
p	6	9	9	9	9	9	12	12	12
r	6,5	7,5	7,5	7,5	7,5	8,5	8	8	9
s	-/-	42,5	42,5	-/-	42,5	42,5	-/-	42,5	42,5
u	72	81	88	96	96	103	110	110	110
y	53	76	-/-	76	76	-/-	85	85	-/-
z	57	82	74	82	82	85	90	90	90

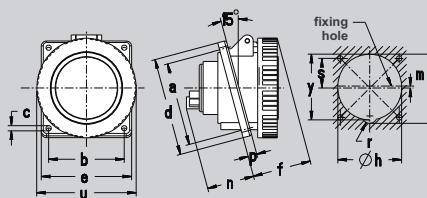
Panel sockets, angled,
fingerproof acc. to BGV A3,
IP 67

* also available as screwless version mit IDC terminals: simply add "SL" to the part no., e.g. 539SL



Amp.	125		
Poles	3	4	5
a	90	90	90
b	90	90	90
c	6,5	6,5	6,5
d	114	114	114
e	114	114	114
f	94	94	94
h	90	90	88
m	-/-	8	8
n	75	75	75
p	12	12	12
r	8	8	9,5
s	-/-	45	45
u	130	130	130
y	96	96	96
z	102	102	104

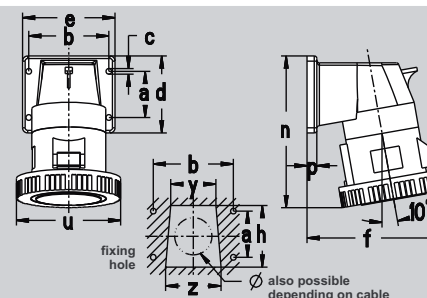
Panel sockets, angled,
with Multi-Contact,
back-of-hand proof acc. to BGV A3,
IP 67



Amp.	16			32			63		
Poles	4	5	3	4	5	3	4	5	
a	60	60	60	60	70	90			
b	60	60	60	60	60	90			
c	5,5	5,5	5,5	5,5	5,5	6,5			
d	75	85	90	90	95	114			
e	75	75	75	75	80	114			
f	52	52	56	56	60	72			
h	60	68	67	67	76	86			
m	-/-	2	-/-	-/-	2,5	2,5			
n	38	38	47	47	47	82			
p	9	9	9	9	9	6			
r	7,5	8	7,5	7,5	8,5	10			
s	-/-	30	-/-	-/-	35	45			
u	81	88	96	96	103	110			
y	62	-/-	71	71	-/-	-/-			
z	64	73	76	76	83	94			

Panel sockets, angled,
fingerproof acc. to BGV A3,
IP 67

* also available as screwless version mit IDC terminals: simply add "SL" to the part no., e.g. 537SL



Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
a	30	40	40	45	45	45	90	90	90
b	55	68	68	78	78	78	90	90	90
c	5,5	5,5	5,5	5,5	5,5	5,5	6,2	6,2	6,2
d	52	66	66	75	75	75	114	114	114
e	65	80	80	90	90	90	114	114	114
f	88	108	108	121	121	123	143	143	143
h	38	52	52	60	60	60	70	70	70
n	109	123	123	145	145	145	203	203	203
p	9,5	9,5	9,5	9,5	9,5	9,5	6	6	6
u	72	81	88	96	96	103	110	110	110
y	30	38	38	44	44	44	56	56	56
z	36	46	46	54	54	54	65	65	65

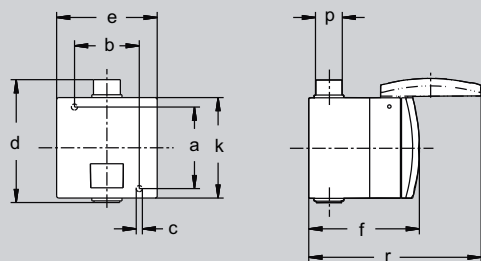
Panel sockets, angled,
with screwed flange enclosure,
IP 67

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h	3-pole 10 h	4-pole 10 h	5-pole 10 h	3-pole 2 h	4-pole 2 h	5-pole 2 h	



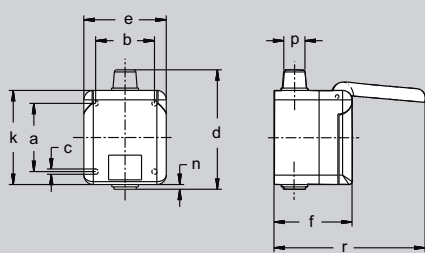
Part numbers																			
16	3	419 304	419 306	419 309														10	
16	4	419 404	419 409	419 406	419 407	419 410	419 402											10	
16	5	419 504*	419 509*	419*														10	
16	5			419 Ni														10	
32	3	439 304	439 306	439 309														10	
125	3	479 304	479 306	479 309														2	
125	4	479 404	479 409	479 406	479 407	479 410	479 402											2	
125	5	479 504	479 509	479														2	
125	5			479 Ni														2	
16	3	519 304	519 306	519 309														10	
16	4	519 404	519 409	519 406	519 407	519 410	519 402											10	
16	5	519 504*	519 509*	519*														10	
16	5			519 Ni														10	
32	3	539 304	539 306	539 309														10	
125	3	579 304	579 306	579 309														2	
125	4	579 404	579 409	579 406	579 407	579 410	579 402											2	
125	5	579 504	579 509	579														2	
125	5			579 Ni														2	
16	4	517 404	517 409	517 406	517 407	517 410	517 402											10	
16	5	517 504*	517 509*	517*														10	
32	3	537 304	537 306	537 309														10	
32	4	537 404	537 409	537 406	537 407	537 410	537 402											10	
32	5	537 504*	537 509*	537*														10	
63	5	567 504	567 509	567														5	
16	3	518 304	518 306	518 309														10	
16	4	518 404	518 409	518 406	518 407	518 410	518 402											10	
16	5	518 504	518 509	518														10	
32	3	538 304	538 306	538 309														10	
32	4	538 404	538 409	538 406	538 407	538 410	538 402											10	

The here listed 63 A and 125 A panel sockets are also available with **pilot contact**. To order them, simply add a "P" behind the standard part number.
Availability of blue printed (or not listed) frequencies and voltages up to 690 V on request!



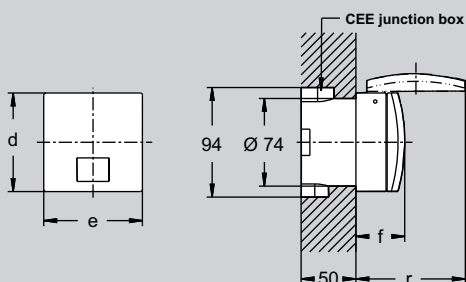
Amp.	16			32		
Poles	3	4	5	3	4	5
d	85	98	98	115	115	115
e	50,3	64,3	64,3	72	72	72
f	70	86	86	96	96	100
n	37	37	37	45,8	45,8	45,8
p	8/15	10/16,5	10/16,5	11/22	11/22	11/22

mondo wall sockets,
surface mount
RAL 7035 light grey,
IP 44 ▲



Amp.	16
Poles	3
a	58
b	50
c	4,5
d	98
e	70
f	68
k	80
n	5
p	7/17,5
r	130

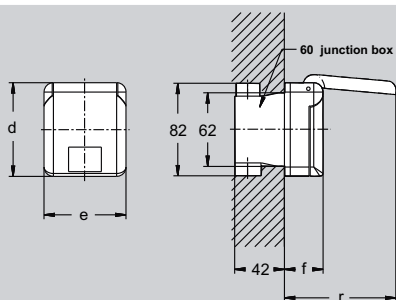
mondo wall sockets,
small version, surface mount,
RAL 7035 light grey,
IP 44 ▲



Amp.	16		
Poles	3	4	5
d	90	90	90
e	90	90	90
f	38	38	38
r	96	96	96

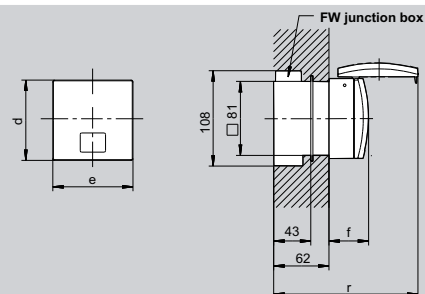
mondo wall sockets,
flush mount,
with flush-type junction box,
with plaster compensation, IP 44 ▲

Available in three colours:
RAL 1013 pearl white
RAL 7035 light grey (suffix „LG“)
RAL 9010 clear white (suffix „RW“),



Amp.	16
Poles	3
d	80
e	70
f	33
r	96

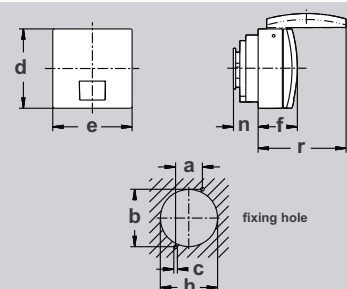
mondo wall sockets,
small version, flush mount,
RAL 1013 pearl white
RAL 7035 light grey (with suffix 'LG'),
RAL 9010 clear white (with suffix 'RW'),
with flush-type junction box,
with plaster compensation,
IP 44 ▲



Amp.	32		
Poles	3	4	5
d	90	90	90
e	90	90	90
f	45	45	45
r	104	104	104

mondo wall sockets,
flush mount,
RAL 1013 pearl white,
with flush-type junction box,
with plaster compensation,
IP 44 ▲

Available in three colours:
RAL 1013 pearl white
RAL 7035 light grey (LG)
RAL 9010 clear white (RW)



Amp.	16			32		
Poles	3	4	5	3	4	5
a	30,4	30,4	30,4	60	60	60
b	65,2	65,2	65,2	60	60	60
c	4,1	4,1	4,1	4,1	4,1	4,1
d	90	90	90	90	90	90
e	90	90	90	90	90	90
f	38	38	38	45	45	45
h	65	65	65	75	75	75
n	36	36	36	31	31	31
r	96	96	96	104	104	104
z	-/-	-/-	-/-	80	80	80

mondo panel sockets, straight,
IP 44 ▲

Available in three colours:
RAL 7035 light grey,
RAL 9010 clear white (RW),
RAL 1013 pearl white (PW)

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz						
		3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h				

Part numbers																			
16	3	116 304	116 306	116 309														5	
16	4	116 404	116 409	116 406	116 407	116 410	116 402											5	
16	5	116 504	116 509	116														5	
32	3	136 304	136 306	136 309														5	
32	4	136 404	136 409	136 406	136 407	136 410	136 402											5	
32	5	136 504	136 509	136														5	
<p>To order a ... ► ... please add the following suffix to the part no.:</p> <ul style="list-style-type: none"> • wall socket with inscription label „BS“ e.g. 436 BS • lockable wall socket with inscription label „AS“ e.g. 436 AS 																			

16	3	117 304	117 306	117 309														10	
----	---	---------	----------------	---------	--	--	--	--	--	--	--	--	--	--	--	--	--	----	--

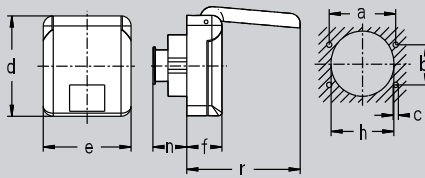
16	3	416 304	416 306	416 309														10	
16	4	416 404	416 409	416 406	416 407	416 410	416 402											10	
16	5	416 504	416 509	416														10	
<p>To order a ... ► ... please add the following suffix to the part no.:</p> <ul style="list-style-type: none"> • wall socket with inscription label „BS“ e.g. 436 BS • lockable wall socket with inscription label „AS“ e.g. 436 AS • light grey wall socket (RAL 7035) „LG“ e.g. 436 LG (or 436 BSLG or 436 ASLG) • clear white wall socket (RAL 9010) „RW“ e.g. 436 RW (or 436 BSRW or 436 ASRW) 																			

16	3	418 304	418 306	418 309														10	
16	3		418 306 LG															10	
16	3		418 306 RW															10	

32	3	436 304	436 306	436 309														5	
32	4	436 404	436 409	436 406	436 407	436 410	436 402											5	
32	5	436 504	436 509	436														5	
<p>To order a ... ► ... please add the following suffix to the part no.:</p> <ul style="list-style-type: none"> • wall socket with inscription label „BS“ e.g. 436 BS • lockable wall socket with inscription label „AS“ e.g. 436 AS • light grey wall socket (RAL 7035) „LG“ e.g. 436 LG (or 436 BSLG or 436 ASLG) • clear white wall socket (RAL 9010) „RW“ e.g. 436 RW (or 436 BSRW or 436 ASRW) 																			

16	3	415 304	415 306	415 309														10	
16	4	415 404	415 409	415 406	415 407	415 410	415 402											10	
16	5	415 504	415 509	415														10	
32	3	435 304	435 306	435 309														10	
32	4	435 404	435 409	435 406	435 407	435 410	435 402											10	
32	5	435 504	435 509	435														10	
<p>To order a ... ► ... please add the following suffix to the part no.:</p> <ul style="list-style-type: none"> • wall socket with inscription label „BS“ e.g. 436 BS • lockable wall socket with inscription label „AS“ e.g. 436 AS 																			

Availability of blue printed (or not listed) frequencies and voltages up to 690 V on request!

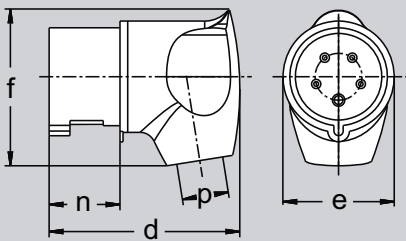


Amp.	16
Poles	3
a	53
b	32
c	4,2
d	80
e	70
f	28
h	50
n	29
r	91

Fixing dimensions = a + b,
Flange dimensions = d + e

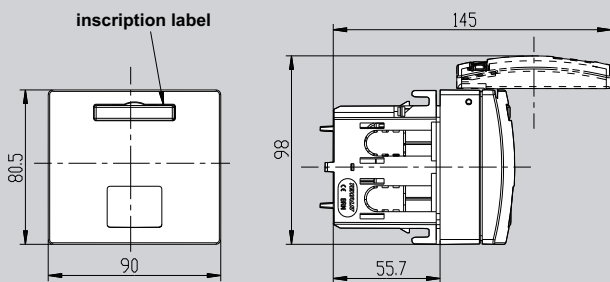
mondo panel sockets,
also suitable for cable ducts,
RAL 7035 light grey,
RAL 1013 pearl white (suffix „PW“),
RAL 9010 clear white (suffix „RW“),
IP 44 ⚠

- Only possible with cover plate 10 028 -



Amp.	16			32		
Poles	3	4	5	3	4	5
d	85	98	98	115	115	115
e	50,3	64,3	64,3	72	72	72
f	70	86	86	96	96	100
n	37	37	37	45,8	45,8	45,8
p	8/15	10/16,5	10/16,5	11/22	11/22	11/22

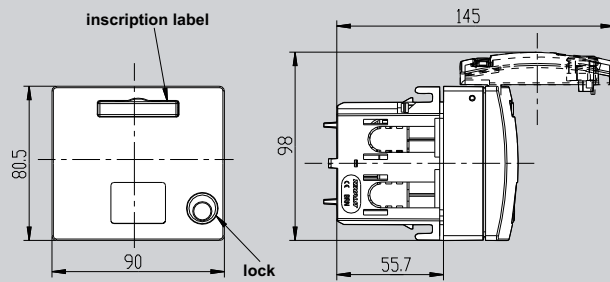
mondo angled plug,
screw terminal connection,
back shell RAL 7035 light grey,
IP 44 ⚠



mondo sockets for cable ducts, IP 44
for TEHALIT steel sheet cable ducts,
with inscription label

Available in four colours:

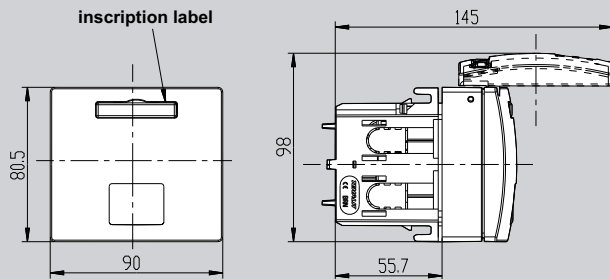
- RAL 7035 light grey,
- RAL 9010 clear white (suffix „RW“),
- RAL 9001 cream white (suffix „CW“)
- lacquered aluminium (suffix „LA“)



mondo sockets for cable ducts, IP 44
for TEHALIT steel sheet cable ducts,
with inscription label and lock

Available in four colours:

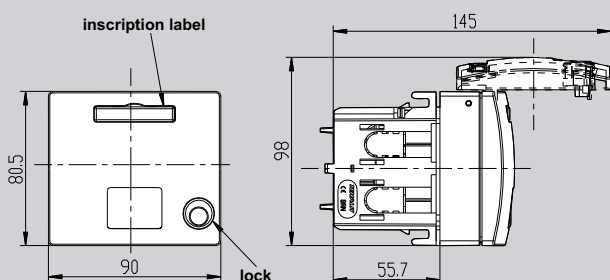
- RAL 7035 light grey,
- RAL 9010 clear white (suffix „RW“),
- RAL 9001 cream white (suffix „CW“)
- lacquered aluminium (suffix „LA“)



mondo sockets for cable ducts, IP 44
for TEHALIT plastic cable ducts,
with inscription label

Available in four colours:

- RAL 7035 light grey,
- RAL 9010 clear white (suffix „RW“),
- RAL 9001 cream white (suffix „CW“)
- lacquered aluminium (suffix „LA“)



mondo sockets f. cable ducts, IP 44
for TEHALIT plastic cable ducts,
with inscription label and lock

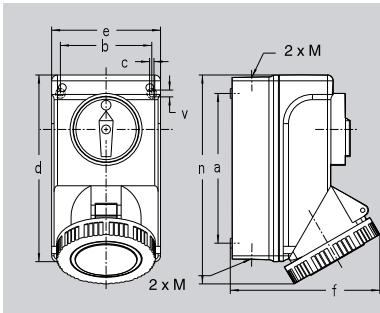
Available in four colours:

- RAL 7035 light grey,
- RAL 9010 clear white (suffix „RW“),
- RAL 9001 cream white (suffix „CW“)
- lacquered aluminium (suffix „LA“)

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			> 50 - 500 V 100 - 300 Hz			> 50 - 500 V over 300 - 500 Hz			
		3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	



		Part numbers																	
16	3	417 304	417 306	417 309														10	
16	3		417 306 PW															10	
16	3		417 306 RW															10	
16	3	216 304	216 306	216 309														10	
16	4	216 404	216 409	216 406		216 407		216 410		216 402								10	
16	5	216 504	216 509	216														10/60	
32	3	236 304	236 306	236 309														10	
32	4	236 404	236 409	236 406		236 407		236 410		236 402								10	
32	5	236 504	236 509	236														10	
Also available in pearl white and clear white : For pearl white add "PW" behind the part number, for clear white "RW"																			
16	3		400 306	400 406														10	
16	4			400														10	
16	5																	10	
16	3		400 306 RW															10	
16	4			400 406 RW														10	
16	5			400 RW														10	
16	3		400 306 CW															10	
16	4			400 406 CW														10	
16	5			400 CW														10	
16	3		400 306 LA															10	
16	4			400 406 LA														10	
16	5			400 LA														10	
mondo cable duct sockets																			
16	3		402 306	402 406														10	
16	4			402														10	
16	5																	10	
16	3		402 306 RW															10	
16	4			402 406 RW														10	
16	5			402 RW														10	
16	3		402 306 CW															10	
16	4			402 406 CW														10	
16	5			402 CW														10	
16	3		402 306 LA															10	
16	4			402 406 LA														10	
16	5			402 LA														10	
for																			
16	3		401 306	401 406														10	
16	4			401														10	
16	5																	10	
16	3		401 306 RW															10	
16	4			401 406 RW														10	
16	5			401 RW														10	
16	3		401 306 CW															10	
16	4			401 406 CW														10	
16	5			401 CW														10	
16	3		401 306 LA															10	
16	4			401 406 LA														10	
16	5			401 LA														10	
TEHALIT cable ducts, series BR, BRN and BRA																			
16	3		403 306	403 406														10	
16	4			403														10	
16	5																	10	
16	3		403 306 RW															10	
16	4			403 406 RW														10	
16	5			403 RW														10	
16	3		403 306 CW															10	
16	4			403 406 CW														10	
16	5			403 CW														10	
16	3		403 306 LA															10	
16	4			403 406 LA														10	
16	5			403 LA														10	

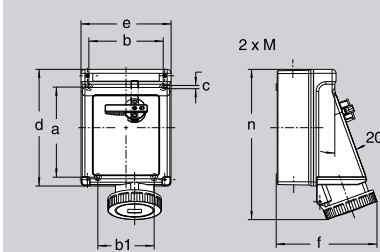


Amp.	16			32		
	3	4	5	3	4	5
a	127	127	127	154	154	154
b	78	78	78	94	94	94
b1	/	/	/	/	/	/
c	4,5	4,5	4,5	4,5	4,5	4,5
d	166	166	166	193	193	193
e	97	97	97	113	113	113
f (IP 44)	116	120	125	145	145	148
f (IP 67)	120	125	132	154	154	154
n (IP 44)	185	185	185	215	215	215
n (IP 67)	185	185	185	215	215	215
v	7	7	7	7	7	7
M	20	20	20	25	25	25

Wall sockets, 3-pole,
with switch, with interlocking, IP 44
• I/O switch 2-pole

Wall sockets, 4-pole,
with switch, with interlocking, IP 44
• I/O switch 4-pole

Wall sockets, 5-pole,
with switch, with interlocking, IP 44
• I/O switch 4-pole

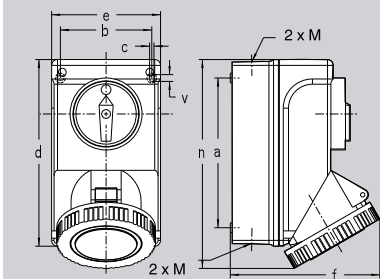


Amp.	16			32			63		
	3	4	5	3	4	5	3	4	5
a	183	183	183	183	183	183	183	183	183
b	151	151	151	151	151	151	151	151	151
b1	114	114	114	114	114	114	114	114	114
c	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
d	237	237	237	237	237	237	237	237	237
e	183	183	183	183	183	183	183	183	183
f (IP 44)	182	187	184	187	187	189	196	196	196
f (IP 67)	193	194	196	201	201	201	209	209	209
n (IP 44)	268	270	273	282	282	284	302	302	302
n (IP 67)	270	272	277	285	285	289	309	309	309
v	/	/	/	/	/	/	/	/	/
M	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32

Wall sockets, 3-pole,
with switch, with interlocking, IP 44
• I/O switch 2-pole

Wall sockets, 4-pole,
with switch, with interlocking, IP 44
• I/O switch 3-pole

Wall sockets, 5-pole,
with switch, with interlocking, IP 44
• I/O switch 4-pole

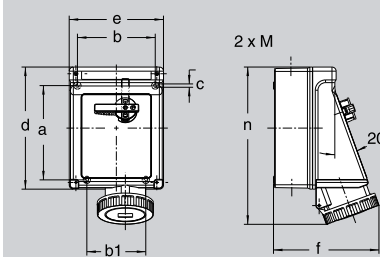


Amp.	16			32		
	3	4	5	3	4	5
a	127	127	127	154	154	154
b	78	78	78	94	94	94
b1	/	/	/	/	/	/
c	4,5	4,5	4,5	4,5	4,5	4,5
d	166	166	166	193	193	193
e	97	97	97	113	113	113
f (IP 44)	116	120	125	145	145	148
f (IP 67)	120	125	132	154	154	154
n (IP 44)	185	185	185	215	215	215
n (IP 67)	185	185	185	215	215	215
v	7	7	7	7	7	7
M	20	20	20	25	25	25

Wall sockets, 3-pole,
with switch, with interlocking, IP 67
• I/O switch 2-pole

Wall sockets, 4-pole,
with switch, with interlocking, IP 67
• I/O switch 3-pole

Wall sockets, 5-pole,
with switch, with interlocking, IP 67
• I/O switch 4-pole

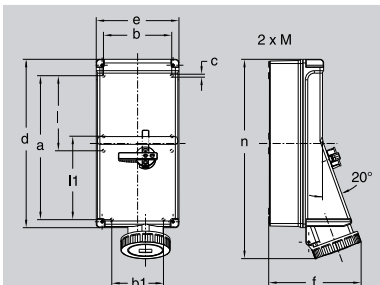


Amp.	16			32			63		
	3	4	5	3	4	5	3	4	5
a	183	183	183	183	183	183	183	183	183
b	151	151	151	151	151	151	151	151	151
b1	114	114	114	114	114	114	114	114	114
c	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
d	237	237	237	237	237	237	237	237	237
e	183	183	183	183	183	183	183	183	183
f (IP 44)	182	187	184	187	187	189	196	196	196
f (IP 67)	193	194	196	201	201	201	209	209	209
n (IP 44)	268	270	273	282	282	284	302	302	302
n (IP 67)	270	272	277	285	285	289	309	309	309
v	/	/	/	/	/	/	/	/	/
M	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32

Wall sockets, 3-pole,
with switch, with interlocking, IP 67
• I/O switch 2-pole

Wall sockets, 4-pole,
with switch, with interlocking, IP 67
• I/O switch 3-pole

Wall sockets, 5-pole,
with switch, with interlocking, IP 67
• I/O switch 4-pole

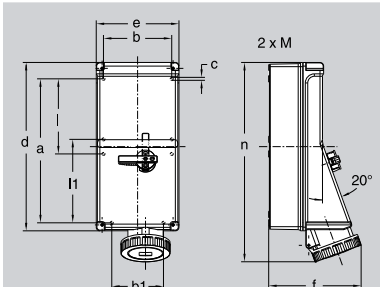


Amp.	16			32			63		
	3	4	5	3	4	5	3	4	5
a	316	316	316	316	316	316	316	316	316
b	151	151	151	151	151	151	151	151	151
b1	114	114	114	114	114	114	114	114	114
c	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
d	370	370	370	370	370	370	370	370	370
e	183	183	183	183	183	183	183	183	183
f (IP44)	182	187	184	187	187	189	196	196	196
f (IP67)	193	194	196	201	201	201	209	209	209
l	165	165	165	165	165	165	165	165	165
ll	183	183	183	183	183	183	183	183	183
n (IP44)	401	404	405	415	415	417	432	432	432
n (IP67)	404	405	410	418	418	418	443	443	443
M	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32

Wall sockets, 3-pole,
with switch, with interlocking, IP 44
• I/O switch 2-pole

Wall sockets, 4-pole,
with switch, with interlocking, IP 44
• I/O switch 3-pole

Wall sockets, 5-pole,
with switch, with interlocking, IP 44
• I/O switch 4-pole












Amp.	16			32			63		
	3	4	5	3	4	5	3	4	5
a	316	316	316	316	316	316	316	316	316
b	151	151	151	151	151	151	151	151	151
b1	114	114	114	114	114	114	114	114	114
c	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
d	370	370	370	370	370	370	370	370	370
e	183	183	183	183	183	183	183	183	183
f (IP44)	182	187	184	187	187	189	196	196	196
f (IP67)	193	194	196	201	201	201	209	209	209
l	165	165	165	165	165	165	165	165	165
ll	183	183	183	183	183	183	183	183	183
n (IP44)	401	404	405	415	415	417	432	432	432
n (IP67)	404	405	410	418	418	418	443	443	443
M	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32

Wall sockets, 3-pole,
with switch, with interlocking, IP 67
• I/O switch 2-pole

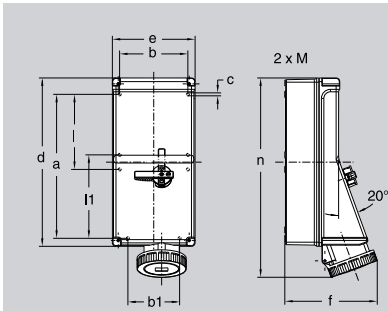
Wall sockets, 4-pole,
with switch, with interlocking, IP 67
• I/O switch 3-pole

Wall sockets, 5-pole,
with switch, with interlocking, IP 67
• I/O switch 4-pole

Switched Wall Sockets

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			 2 P + E  3 P + E  3 P + N + E	
		3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h		
Part numbers															
16	3	AT 110 304	AT 110 306	AT 110 309										 AT130	
16	4	AT 110 404	AT 110 409	AT 110 406	AT 110 407										
16	5	AT 110 504	AT 110 509	AT 110											
32	3	AT 130 304	AT 130 306	AT 130 309											
32	4	AT 130 404	AT 130 409	AT 130 406	AT 130 407										
32	5	AT 130 504	AT 130 509	AT 130											
16	3	AE 110 304	AE 110 306	AE 110 309											 AE130
16	4	AE 110 404	AE 110 409	AE 110 406	AE 110 407										
16	5	AE 110 504	AE 110 509	AE 110											
32	3	AE 130 304	AE 130 306	AE 130 309											
32	4	AE 130 404	AE 130 409	AE 130 406	AE 130 407										
32	5	AE 130 504	AE 130 509	AE 130											
63	3	AE 160 304	AE 160 306	AE 160 309											
63	4	AE 160 404	AE 160 409	AE 160 406	AE 160 407										
63	5	AE 160 504	AE 160 509	AE 160											
16	3	AT 119 304	AT 119 306	AT 119 309										 AT119	
16	4	AT 119 404	AT 119 409	AT 119 406	AT 119 407										
16	5	AT 119 504	AT 119 509	AT 119											
32	3	AT 139 304	AT 139 306	AT 139 309											
32	4	AT 139 404	AT 139 409	AT 139 406	AT 139 407										
32	5	AT 139 504	AT 139 509	AT 139											
16	3	AE 119 304	AE 119 306	AE 119 309											 AE119
16	4	AE 119 404	AE 119 409	AE 119 406	AE 119 407										
16	5	AE 119 504	AE 119 509	AE 119											
32	3	AE 139 304	AE 139 306	AE 139 309											
32	4	AE 139 404	AE 139 409	AE 139 406	AE 139 407										
32	5	AE 139 504	AE 139 509	AE 139											
63	3	AE 169 304	AE 169 306	AE 169 309											
63	4	AE 169 404	AE 169 409	AE 169 406	AE 169 407										
63	5	AE 169 504	AE 169 509	AE 169											
16	3	AJ 110 304	AJ 110 306	AJ 110 309										 AJ130	
16	4	AJ 110 404	AJ 110 409	AJ 110 406	AJ 110 407										
16	5	AJ 110 504	AJ 110 509	AJ 110											
32	3	AJ 130 304	AJ 130 306	AJ 130 309											
32	4	AJ 130 404	AJ 130 409	AJ 130 406	AJ 130 407										
32	5	AJ 130 504	AJ 130 509	AJ 130											
63	3	AJ 160 304	AJ 160 306	AJ 160 309											
63	4	AJ 160 404	AJ 160 409	AJ 160 406	AJ 160 407										
63	5	AJ 160 504	AJ 160 509	AJ 160											
16	3	AJ 119 304	AJ 119 306	AJ 119 309										 AJ119	
16	4	AJ 119 404	AJ 119 409	AJ 119 406	AJ 119 407										
16	5	AJ 119 504	AJ 119 509	AJ 119											
32	3	AJ 139 304	AJ 139 306	AJ 139 309											
32	4	AJ 139 404	AJ 139 409	AJ 139 406	AJ 139 407										
32	5	AJ 139 504	AJ 139 509	AJ 139											
63	3	AJ 169 304	AJ 169 306	AJ 169 309											
63	4	AJ 169 404	AJ 169 409	AJ 169 406	AJ 169 407										
63	5	AJ 169 504	AJ 169 509	AJ 169											

On request: If the **neutral conductor** shall be **switched**, change the third digit of the part number from "1" to "7"



Amp.	125		
Poles	3	4	5
a	316	316	316
b	151	151	151
b1	126	126	
c	6,5	6,5	6,5
d	370	370	370
e	183	183	183
f (IP44)	/	/	/
f (IP67)	243	243	243
l	/	/	/
ll	/	/	/
n (IP44)	/	/	/
n (IP67)	450	450	450
M	40	40	40

Wall sockets, 3-pole,
with switch, with interlocking, IP 67

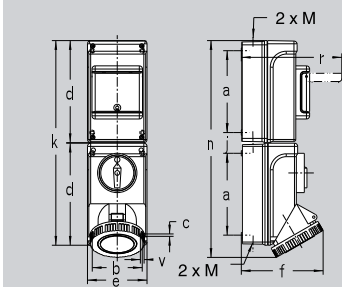
- I/O switch 2-pole

Wall sockets, 4-pole,
with switch, with interlocking, IP 67

- I/O switch 3-pole

Wall sockets, 5-pole,
with switch, with interlocking, IP 67

- I/O switch 4-pole



Amp.	16			32		
Poles	3	4	5	3	4	5
a	127	127	127	154	154	154
b	78	78	78	94	94	94
c	4,5	4,5	4,5	4,5	4,5	4,5
d	166	166	166	193	193	193
e	97	97	97	113	113	113
f (IP 44)	116	120	125	145	145	148
f (IP 67)	120	125	132	154	154	154
j	39	39	39	39	39	39
k	333	333	333	387	387	387
n (IP 44)	352	352	352	409	409	409
n (IP 67)	352	352	352	409	409	409
r	177	177	177	191	191	191
v	7	7	7	7	7	7
M	20	20	20	25	25	25

Wall sockets, 3-pole,
with DIN rail, with interlocking, IP 67

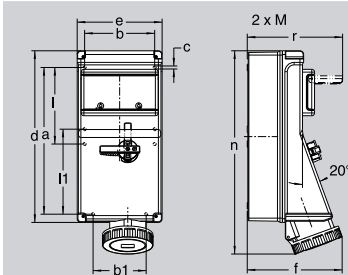
- I/O switch 2-pole,

Wall sockets, 4-pole,
with DIN rail, with interlocking, IP 67

- I/O switch 3-pole

Wall sockets, 5-pole,
with DIN rail, with interlocking, IP 67

- I/O switch 4-pole



Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
a	316	316	316	316	316	316	316	316	316
b	151	151	151	151	151	151	151	151	151
b1	114	114	114	114	114	114	114	114	114
c	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
d	370	370	370	370	370	370	370	370	370
e	183	183	183	183	183	183	183	183	183
f (IP 44)	182	187	184	187	187	189	196	196	196
f (IP 67)	193	194	196	201	201	201	209	209	209
l	165	165	165	165	165	165	165	165	165
ll	183	183	183	183	183	183	183	183	183
n (IP 44)	401	404	405	415	415	417	432	432	432
n (IP 67)	404	405	410	418	418	418	443	443	443
r	206	206	206	206	206	206	206	206	206
M	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32

Wall sockets, 3-pole,
with DIN rail, with interlocking, IP 67

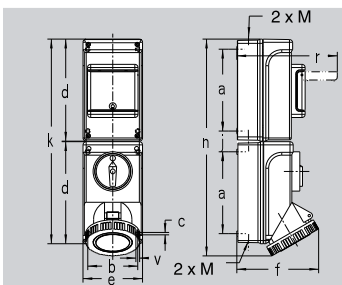
- I/O switch 2-pole

Wall sockets, 4-pole,
with DIN rail, with interlocking, IP 67

- I/O switch 3-pole

Wall sockets, 5-pole,
with DIN rail, with interlocking, IP 67

- I/O switch 4-pole



Amp.	16			32		
Poles	3	4	5	3	4	5
a	127	127	127	154	154	154
b	78	78	78	94	94	94
c	4,5	4,5	4,5	4,5	4,5	4,5
d	166	166	166	193	193	193
e	97	97	97	113	113	113
f (IP 44)	116	120	125	145	145	148
f (IP 67)	120	125	132	154	154	154
j	39	39	39	39	39	39
k	333	333	333	387	387	387
n (IP 44)	352	352	352	409	409	409
n (IP 67)	352	352	352	409	409	409
r	177	177	177	191	191	191
v	7	7	7	7	7	7
M20	20	20	25	25	25	7

Wall sockets, 3-pole, interlocking, IP 44

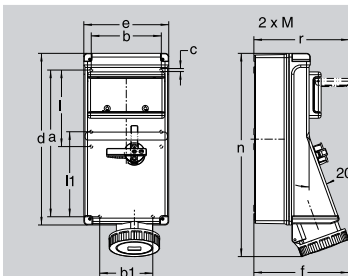
- I/O switch 2-pole
- with MCB 1-pole 16 or 32 A »C«

Wall sockets, 4-pole, interlocking, IP 44

- I/O switch 3-pole
- with MCB 3-pole 16 od. 32 A »C«

Wall sockets, 5-pole, interlocking, IP 44

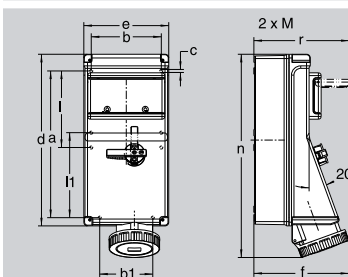
- I/O switch 4-pole
- with MCB 3-pole 16 or 32 A



Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
a	316	316	316	316	316	316	316	316	316
b	151	151	151	151	151	151	151	151	151
b1	114	114	114	114	114	114	114	114	114
c	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
d	370	370	370	370	370	370	370	370	370
e	183	183	183	183	183	183	183	183	183
f (IP 44)	182	187	184	187	187	189	196	196	196
f (IP 67)	193	194	196	201	201	201	209	209	209
l	165	165	165	165	165	165	165	165	165
ll	183	183	183	183	183	183	183	183	183
n (IP 44)	401	404	405	415	415	417	432	432	432
n (IP 67)	404	405	410	418	418	418	443	443	443
r	206	206	206	206	206	206	206	206	206
M	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32

Wall sockets, 5-pole interlocking, IP 44

- with I/O switch 4-pole,
- with MCB 3-pole 16 A, 32 A or 63 A »C«
- with RCD 4-pole 40 A/30 mA or 63 A/30 mA
















Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
a	316	316	316	316	316	316	316	316	316
b	151	151	151	151	151	151	151	151	151
b1	114	114	114	114	114	114	114	114	114
c	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
d	370	370	370	370	370	370	370	370	370
e	183	183	183	183	183	183	183	183	183
f (IP 44)	182	187	184	187	187	189	196	196	196
f (IP 67)	193	194	196	201	201	201	209	209	209
l	165	165	165	165	165	165	165	165	165
ll	183	183	183	183	183	183	183	183	183
n (IP 44)	401	404	405	415	415	417	432	432	432
n (IP 67)	404	405	410	418	418	418	443	443	443
r	206	206	206	206	206	206	206	206	206
M	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32

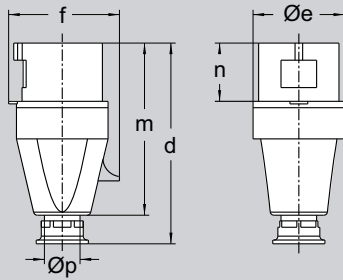
Wall sockets, 5-pole interlocking, IP 67

- with 4-pole I/O switch,
- with MCB 3-pole 16 A, 32 A or 63 A »C«
- with RCD 4-pole 40 A/30 mA or 63 A/30 mA

Switched Wall Sockets

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz			 2 P + E  3 P + E  3 P + N + E
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h	
Part numbers														
125	3	AO 179 304			AO 179 306			AO 179 309						 AO179
125	4	AO 179 404			AO 179 409			AO 179 406			AO 179 407			
125	5	AO 179 504			AO 179 509			AO 179						
16	3	AU 119 304 TS			AU 119 306 TS			AU 119 309 TS			AO 119 407 TS			 AU119TS
16	4	AU 119 404 TS			AU 119 409 TS			AU 119 406 TS						
16	5	AU 119 504 TS			AU 119 509 TS			AU 119 TS						
32	3	AU 139 304 TS			AU 139 306 TS			AU 139 309 TS			AO 139 407 TS			 AL139TS
32	4	AU 139 404 TS			AU 139 409 TS			AU 139 406 TS						
32	5	AU 139 504 TS			AU 139 509 TS			AU 139 TS						
16	3	AL 119 304 TS			AL 119 306 TS			AL 119 309 TS			AL 119 407 TS			 AL119TS
16	4	AL 119 404 TS			AL 119 409 TS			AL 119 406 TS						
16	5	AL 119 504 TS			AL 119 509 TS			AL 119 TS						
32	3	AL 139 304 TS			AL 139 306 TS			AL 139 309 TS			AL 139 407 TS			 AL139TS
32	4	AL 139 404 TS			AL 139 409 TS			AL 139 406 TS						
32	5	AL 139 504 TS			AL 139 509 TS			AL 139 TS						
63	3	AL 169 304 TS			AL 169 306 TS			AL 169 309 TS			AL 169 407 TS			 AL169TS
63	4	AL 169 404 TS			AL 169 409 TS			AL 169 406 TS						
63	5	AL 169 504 TS			AL 169 509 TS			AL 169 TS						
16	3	AU 110 304 UD			AU 110 306 UD			AU 110 309 UD			AO 110 407 SA			 AU110TA
16	4	AU 110 404 SA			AU 110 409 SA			AU 110 406 SA						
16	5	AU 110 504 TA			AU 110 509 TA			AU 110 TA						
32	3	AU 130 304 UD			AU 130 306 UD			AU 130 309 UD			AO 130 407 SA			 AU130TA
32	4	AU 130 404 SA			AU 130 409 SA			AU 130 406 SA						
32	5	AU 130 504 TA			AU 130 509 TA			AU 130 TA						
16	5	AL 110 504 TH			AL 110 509 TH			AL 110 TH						 AL110TH
32	5	AL 130 504 TH			AL 130 509 TH			AL 130 TH						
63	5	AL 160 504 TH			AL 160 509 TH			AL 160 TH						
16	5	AL 119 504 TH			AL 119 509 TH			AL 119 TH						 AL119TH
32	5	AL 139 504 TH			AL 139 509 TH			AL 139 TH						
63	5	AL 169 504 TH			AL 169 509 TH			AL 169 TH						

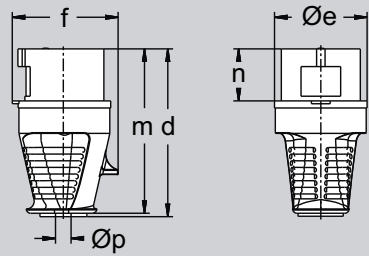
On request: If the **neutral conductor** shall be **switched**, change the third digit of the part number from "1" to "7"



Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
d	123	131	131	155	155	155	240	240	240
Øe	51	65	65	73	73	73	81	81	81
f	60	68	75	79	79	88	97	97	97
m	118	112	112	133	133	133	192	192	192
n	37	37	37	46	46	46	67	67	67
Øp	7,5-14,5	7,5-14,5	7,5-14,5	10-19,5	10-19,5	10-19,5	18-34,5	18-34,5	18-34,5

Coupler

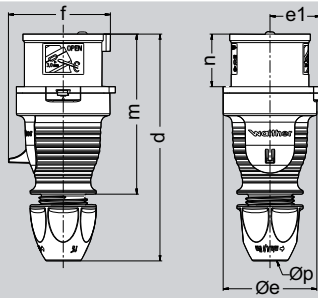
for light and stage engineering,
with trumpet gland,
16 - 63 A: IP 44 ▲
125 A: IP 67 ▲²⁾



Amp.	16
Poles	5
d	111
Øe	51
f	60
m	108
Øp	8/15

Plug

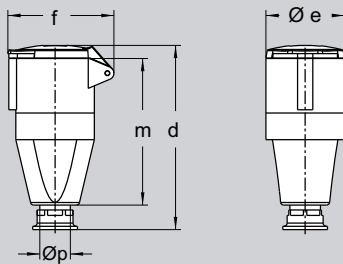
for light and stage engineering,
with inverted cable entry,
IP 44 ▲



Amp.	16	32
Poles	5	5
d	150-161	174-183
Øe	65	72
e1	35	38,5
f	71	83
m	111	128
n	37	45,5
Øp	7,5-18,5	10-22,5

Plug

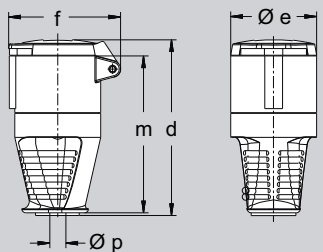
for light and stage engineering,
with exterior cable gland,
IP 44 ▲



Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
d	135	151	151	171	171	171	255	255	255
Øe	51	65	65	72	72	72	96	96	96
f	68	85	85	91	91	98	114	114	114
m	110	113	113	136	136	136	194	194	194
Øp	7,5-14,5	7,5-14,5	7,5-14,5	10-19,5	10-19,5	10-19,5	18-34,5	18-34,5	18-34,5

Coupler

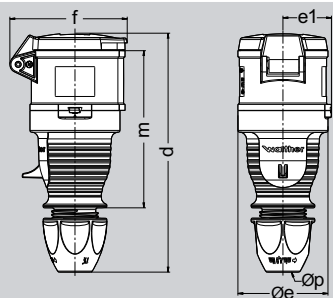
for light and stage engineering,
with trumpet gland,
16 - 63 A: IP 44 ▲
125 A: IP 67 ▲²⁾



Amp.	16
Poles	5
d	121
Øe	51
f	68
m	108
Øp	8/15

Coupler

for light and stage engineering,
with inverted cable entry,
IP 44 ▲



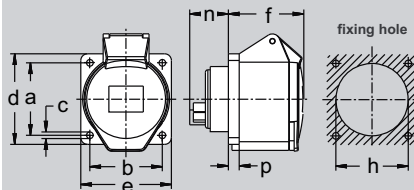
Amp.	16	32
Poles	5	5
d	165-176	189-199
Øe	65	72
e1	35	38,5
f	85	97
m	114	130
Øp	7,5/18,5	10-22,5

Coupler

for light and stage engineering,
with exterior cable gland,
IP 44 ▲

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			500 V 50 and 60 Hz				 2 P + E  3 P + E  3 P + N + E	
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h	3-pole 7 h	4-pole 7 h	5-pole 7 h			
Part numbers																
16	3				211 306 SW										10	
16	4								211 406 SW						10	
16	5								211 SW						10	
32	3				231 306 SW										10	
32	4								231 406 SW						10	
32	5								231 SW						10	
63	3				261 306 SW										5	
63	4								261 406 SW						5	
63	5								261 SW						5	
125	3				279 306 SW¹⁾										2	
125	4								279 406 SW¹⁾						2	
125	5								279 SW¹⁾						2	
16	3	215 304 SW			215 306 SW										10	
16	5								210 SW						10/60	
32	5								230 SW						10/60	
16	3				311 306 SW										10	
16	4								311 406 SW						10	
16	5								311 SW						10	
32	3				331 306 SW										10	
32	4								331 406 SW						10	
32	5								331 SW						10	
63	3				361 306 SW										5	
63	4								361 406 SW						5	
63	5								361 SW						5	
125	3				379 306 SW²⁾										2	
125	4								379 406 SW²⁾						2	
125	5								379 SW²⁾						2	
16	3	315 304 SW			315 306 SW										10	
16	5								310 SW						10/60	
32	5								330 SW						10/60	

The here listed 63 A + 125 A panel sockets are also available with **pilot contact**.
To order them, simply add a „P“ behind the part number.



Amp.	16			32			63		
Poles	3	4	5	3	4	5	3	4	5
a	60	60	60	60	60	60	85	85	85
b	60	60	60	60	60	60	77	77	77
c	5,5	5,5	5,5	5,5	5,5	5,5	6,5	6,5	6,5
d	75	75	75	75	75	75	107	107	107
e	75	75	75	75	75	75	100	100	100
f	52	53	53	65	65	65	85	85	85
h	46	60	60	60	60	60	90	90	90
n	28	28	28	27	27	27	52	52	52
p	6	9	9	9	9	9	12	12	12

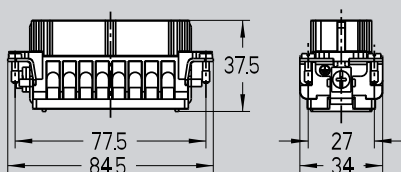
Panel sockets, straight,

for light and stage engineering,
16 - 63 A: IP 44, flange dimensions 75 x 75,
fingerproof acc. to BGV A3

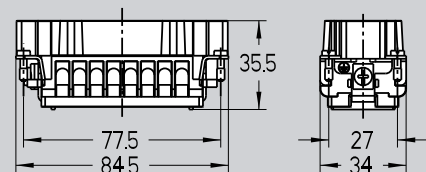
63 A: IP 44, flange dimensions 107 x 100,
fingerproof acc. to BGV A3

125 A: IP 67³⁾

Female insert 710 116 / 710 116 01



Male insert 710 216 / 710 216 01

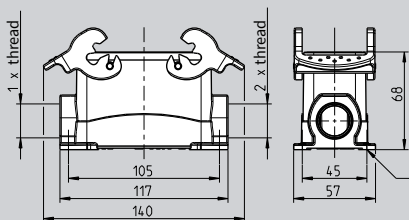


Female insert, screw terminals, wire protection, series B16, 0,5-2,5 mm² (20-14 AWG)

Female insert, insulation displacement connection, series B16, 0,5-2,5 mm² (20-14 AWG)

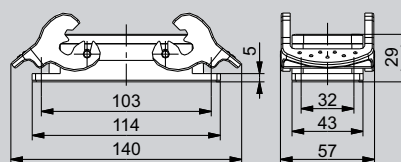
Male insert, screw terminals, wire protection, series B 16, 0,5-2,5 mm² (20-14 AWG)

Male insert, insulation displacement connection, series B16, 0,5-2,5 mm² (20-14 AWG)



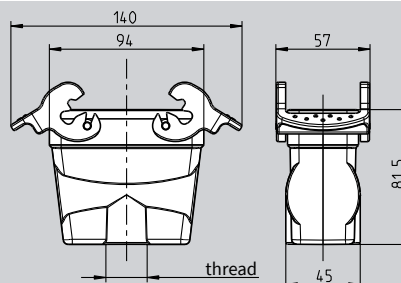
Wall mount housings

for light and stage engineering,
series B 16,
height 68 mm,
with double locking levers,
with collar,
without cable gland



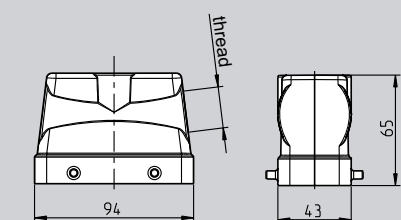
Panel housing

for light and stage engineering,
series B 16,
height 29 mm,
with double locking levers,
with recess for labels (clips),
panel cut-out 86 x 35 mm



Coupler hoods

for light and stage engineering,
series B 16,
height 70,5 mm,
with double locking levers,
with collar,
without cable gland



Hoods

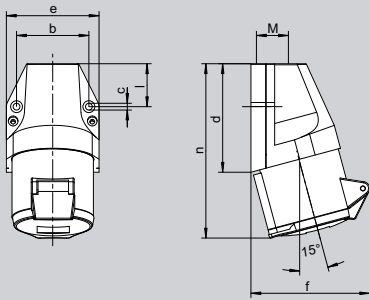
for light and stage engineering,
series B 16,
height 60 mm,
for double locking levers,
side cable entry,
without cable gland, 1 x M 25

3) Drawing and dimensions for 125 A, IP 67 see chapter „Panel Sockets“, part no. 479

Ampère	Poles	110 V 50 and 60 Hz			230 V 50 and 60 Hz			400 V 50 and 60 Hz			Accessories		 2 P + E  3 P + E  3 P + N + E
		3-pole 4 h	4-pole 4 h	5-pole 4 h	3-pole 6 h	4-pole 9 h	5-pole 9 h	3-pole 9 h	4-pole 6 h	5-pole 6 h			
Part numbers													
16	3	410 304 SW			410 306 SW							10	
16	4							410 406 SW				10	
16	5							410 SW				10	
32	3				430 306 SW							10	
32	4							430 406 SW				10	
32	5							430 SW				10	
63	3				460 306 SW							5	
63	4							460 406 SW				5	
63	5							460 SW				5	
125	3				479 306 SW ³⁾							2	
125	4							479 406 SW ³⁾				2	
125	5							479 SW ³⁾				2	
16		Female, screw terminals			710 116							10	
16		Female, IDC			710 116 01							10	
16		Male, screw terminals			710 216							10	
16		Male, IDC			710 216 01							10	
16													
16					P711016MSSW			M 25 719 630				10	
16													
16					P757072MSSW			M 32 719 631				10	
16					714 116 SW							10	
16													
16					P 713 616 SW			M 25 719 630				10	
16													
16					P 753 772 SW			M 32 719 631				10	
16													
16					P 718 016 SW			M 25 719 630				10	
16													
16					P 728 140 SW			M 32 719 631				10	

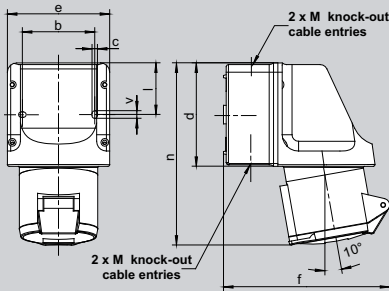
Also available as 6, 10 and 24 pole versions

The here listed 63 A + 125 A panel sockets are also available with **pilot contact**.
To order them, simply add a „P“ behind the part number.



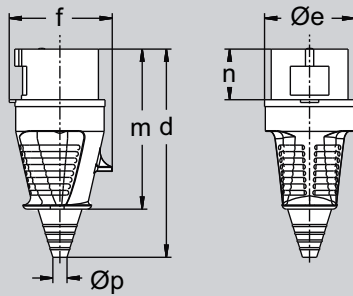
Amp.	16	32
Poles	7	7
b	60	60
c	5,3	5,3
d	80	97
e	74	82
f	90	105
l	31	45
n	129	155
M	20	25

Wall sockets,
external fixing,
1 top cable entry,
IP 44 ⚠



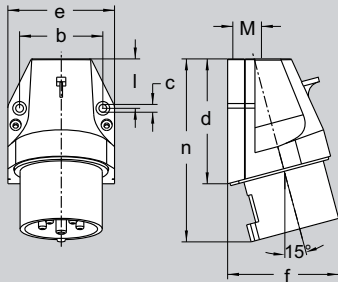
Amp.	16	32
Poles	7	7
b	66,5	66,5
c	5	5
d	96	96
e	95	95
f	146	157
l	47,5	47,5
n	164	173
v	7	7
M	20/25	20/25

Wall sockets,
internal fixing,
2 knock-out cable entries on top and bottom,
IP 44 ⚠



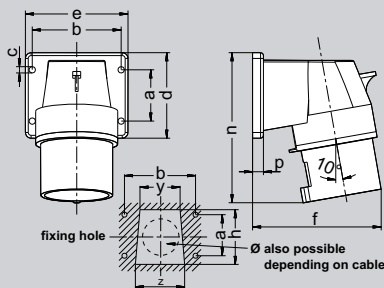
Amp.	16	32
Poles	7	7
d	153	181
Øe	65	72
f	75	88
m	117	138
n	37	46
Øp	8/21	11/24

Plugs,
flexible cable entry,
IP 44 ⚠



Amp.	16	32
Poles	7	7
b	60	60
c	5,3	5,3
d	80	97
e	74	82
f	73	86
l	31	45
n	117	141
M	20	25

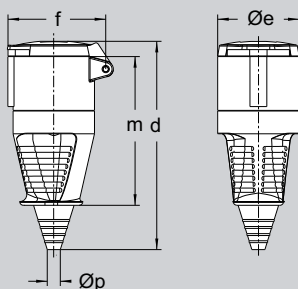
Wall mount appliance inlets,
external fixing,
1 top cable entry,
IP 44 ⚠



Amp.	16	32
Poles	7	7
a	40	45
b	68	78
c	5,5	5,5
d	66	75
e	80	90
f	92	103
h	52	60
n	110	129
p	9,5	9,5
y	38	44
z	46	54

Fixing dimensions = a + b,
Flange dimensions = d + e

Panel mount appliance inlets, angled,
screwed flange enclosure,
IP 44 ⚠



Amp.	16	32
Poles	7	7
d	167	196
Øe	65	72
f	85	98
m	119	141
Øp	8/21	11/24

Couplers,
flexible cable entry,
IP 44 ⚠

7-pole plugs & sockets

Ampère	Poles	230 V 50 a. 60 Hz			400 V 50 a. 60 Hz			500 V 50 a. 60 Hz			Part numbers
		3pole 6h	4pole 9h	5pole 9h	3pole 9h	4pole 6h	5pole 6h	3pole 7h	4pole 7h	5pole 7h	
16	7	110 709			110 706			110 707			10
32	7	130 709			130 706			130 707			10
16	7	111 709			111 706			111 707			5
32	7	131 709			131 706			131 707			5
16	7	210 709			210 706			210 707			10
32	7	230 709			230 706			230 707			10
16	7	610 709			610 706			610 707			10
32	7	630 709			630 706			630 707			10
16	7	611 709			611 706			611 707			10
32	7	631 709			631 706			631 707			10
16	7	310 709			310 706			310 707			10
32	7	330 709			330 706			330 707			10



6 P + E



130706



131706



230706



630706

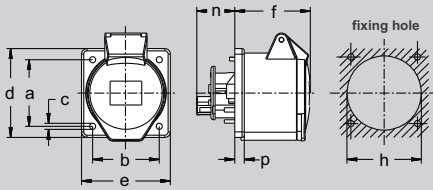


631706



330706

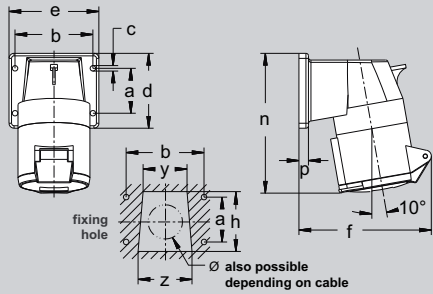
10



Amp.	16	32
Poles	7	7
a	60	60
b	60	60
c	5,5	5,5
d	80	80
e	80	80
f	60	60
h	67	71
n	23,5	23,5
p	8,5	8,5

Fixing dimensions = a + b,
Flange dimensions = d + e





Panel sockets, straight,
screwed flange,
flange dimensions 80 x 80,
IP 44 ⚠



Amp.	16	32
Poles	7	7
a	40	45
b	68	78
c	5,5	5,5
d	66	75
e	80	90
f	110	124
h	52	60
n	122	142
p	9,5	9,5
y	38	44
z	46	54

Fixing dimensions = a + b,
Flange dimensions = d + e

Panel sockets, angled,
screwed flange enclosure,
IP 44 ⚠

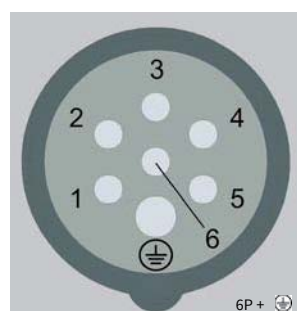
Ampère	Poles	230 V 50 a. 60 Hz			400 V 50 a. 60 Hz			500 V 50 a. 60 Hz				 6 P + E
		3pole 6h	4pole 9h	5pole 9h	3pole 9h	4pole 6h	5pole 6h	3pole 7h	4pole 7h	5pole 7h		
Part numbers												
16	7	411 709			411 706			411 707			10	 431706
32	7	431 709			431 706			431 707			10	
16	7	514 709			514 706			514 707			10	 534
32	7	534 709			534 706			534 707			10	



7-pole plugs and sockets









always come with nickel-plated contacts - **for protection against oxidation.**

If an electrical drive is operated via a plug and socket device, e.g. star-delta starting, Dalander connection or conveyor belt systems, then 7-pole plugs and sockets have to be used.










Version	Ampère	Poles	IP degree	Cable Rubber		230 V 50 and 60 Hz		400 V 50 and 60 Hz		kg	 2 P+E  3 P+N+E
				Length		3 pole 6 h	5 pole 9 h	3 pole 9 h	5 pole 6 h		
Part numbers											
Schuko Coupler with voltage indication	16	3	IP54	5 m H07RN-F 3G2,5		39100302050013				1,4	
				10 m H07RN-F 3G2,5		39100302100013			2,6		
				25 m H07RN-F 3G2,5		39100302250013			6,1		
				50 m H07RN-F 3G2,5		39100302500013			12,0		
CEE	16	3	IP44	5 m H07RN-F 3G2,5		39100302050				1,4	
				10 m H07RN-F 3G2,5		39100302100			2,6		
				25 m H07RN-F 3G2,5		39100302250			6,1		
				50 m H07RN-F 3G2,5		39100302500			12,0		
CEE	16	5	IP44	5 m H07RN-F 5G2,5				39100502050		2,3	
				10 m H07RN-F 5G2,5				39100502100	4,0		
				25 m H07RN-F 5G2,5				39100502250	9,2		
				50 m H07RN-F 5G2,5				39100502500	17,8		
CEE Phase inverter plug	16	5	IP44	5 m H07RN-F 5G2,5				39100502050002		2,2	
				10 m H07RN-F 5G2,5				39100502100002	3,9		
				25 m H07RN-F 5G2,5				39100502250002	9,1		
				50 m H07RN-F 5G2,5				39100502500002	17,7		
CEE	32	5	IP44	5 m H07RN-F 5G6				39300506050		3,9	
				10 m H07RN-F 5G6				39300506100	7,2		
				25 m H07RN-F 5G6				39300506250	16,9		
				50 m H07RN-F 5G6				39300506500	33,2		
CEE Phase inverter plug	32	5	IP44	5 m H07RN-F 5G6				39300506050002		3,9	
				10 m H07RN-F 5G6				39300506100002	7,1		
				25 m H07RN-F 5G6				39300506250002	16,9		
				50 m H07RN-F 5G6				39300506500002	33,1		











Rubber extension cables

Version	Ampère	Poles	IP degree	Cable Rubber		230 V 50 and 60 Hz		400 V 50 and 60 Hz		kg	 2 P + E	 3 P + N + E
				Length		3 pole 6 h	5 pole 9 h	3 pole 9 h	5 pole 6 h			
Part numbers												
CEE	63	5	IP44	5 m H07RN-F 5G16				39600516050		9,1		
				10 m H07RN-F 5G16				39600516100		16,8		
				25 m H07RN-F 5G16				39600516250		40,1		
				50 m H07RN-F 5G16				39600516500		78,8		
CEE	16	3	IP67	5 m H07RN-F 3G2,5		39100302050067				1,5		
				10 m H07RN-F 3G2,5		39100302100067				2,7		
				25 m H07RN-F 3G2,5		39100302250067				6,2		
				50 m H07RN-F 3G2,5		39100302500067				12,1		
CEE lockable	16	5	IP67	5 m H07RN-F 5G2,5				39100502050067		2,3		
				10 m H07RN-F 5G2,5				39100502100067		4,0		
				25 m H07RN-F 5G2,5				39100502250067		9,2		
				50 m H07RN-F 5G2,5				39100502500067		17,8		
CEE lockable	32	5	IP67	5 m H07RN-F 5G6				39300506050067		4,0		
				10 m H07RN-F 5G6				39300506100067		7,3		
				25 m H07RN-F 5G6				39300506250067		17,0		
				50 m H07RN-F 5G6				39300506500067		33,3		
CEE lockable	63	5	IP67	5 m H07RN-F 5G16				39600516050067		9,2		
				10 m H07RN-F 5G16				39600516100067		16,9		
				25 m H07RN-F 5G16				39600516250067		40,2		
				50 m H07RN-F 5G16				39600516500067		78,9		
CEE	125	5	IP67	5 m H07RN-F 5G35				39700535050		17,1		
				10 m H07RN-F 5G35				39700535100		30,8		
				25 m H07RN-F 5G35				39700535250		72,1		
				50 m H07RN-F 5G35				39700535500		140,8		

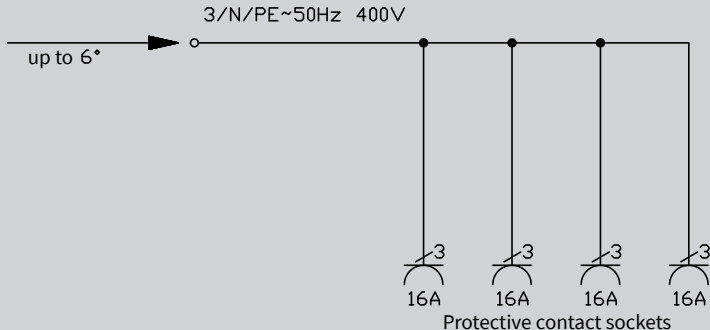
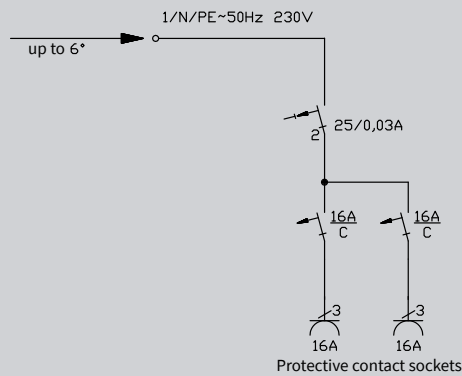
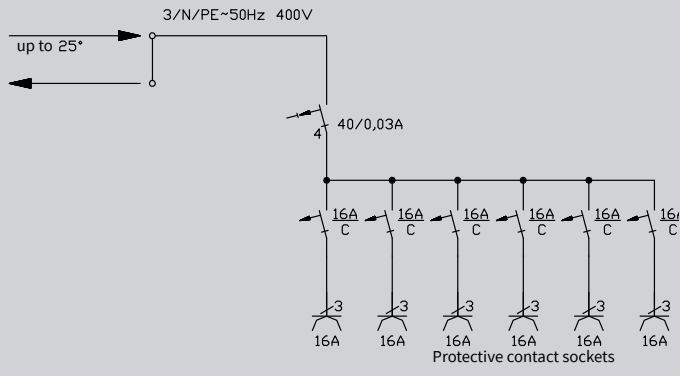
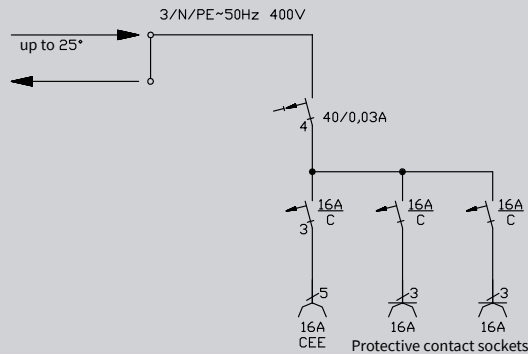
11

Type, version	L x W x H (mm)	Chan-nels	Size per channel (mm)	Carrying capacity	Integrated connecting pin	Part number	kg		
1K, straight	1000 x 130 x 20	1	40 x 10	200 kg	YES	39870090	2,0	2	
2K, straight	1000 x 250 x 48	2	28 x 30	9 t Axle load (heavy traffic)	YES	39870020	7,5 kg	2	
2K, Curve 30°	280 x 250 x 48	2	28 x 30	9 t Axle load (heavy traffic)	NO, per connection, 2 connecting pieces 39870023 required 	39870021	1,9 kg	1	
2K, End piece	150 x 250 x 48	2	28 x 30	9 t Axle load (heavy traffic)	NO, per connection, 2 connecting pieces 39870023 required 	39870022	2 kg	1	
2K, Connecting piece	45 x 30 x 38					39870023	0,1	2	
2K Maxi, straight	800 x 590 x 105	2	80 x 80	9 t Axle load (heavy traffic)	YES	39870080	27	1	

Solid rubber cable protectors

Type, version	L x W x H (mm)	Chan-nels	Size per channel (mm)	Carrying capacity	Integrated connecting pin	Part number	kg		
4K, straight	800 x 590 x 78	4	2 channels 52 x 52 2 channels 46 x 52	9 t Axle load (heavy traffic)	NO, per con- nection, 2 connecting pieces 39870043 required 	39870040	23,0	1	
4K, Curve 30°	455 x 590 x 78	4	2 channels 52 x 52 2 channels 46 x 52	9 t Axle load (heavy traffic)	NO, per con- nection, 2 connecting pieces 39870043 required 	39870041	8,9	1	
4K, End piece	300 x 590 x 78	4	2 channels 52 x 52 2 channels 46 x 52	9 t Axle load (heavy traffic)	NO, per con- nection, 2 connecting pieces 39870043 required 	39870042	6,6	1	
5K, straight	800 x 445 x 50	5	35 x 35	9 t Axle load (heavy traffic)	YES	39870050	15,0	2	
5K, Curve 30°	380 x 445 x 50	5	35 x 35	9 t Axle load (heavy traffic)	YES	39870051	4,8	1	
5K, End piece	200 x 445 x 50	5	35 x 35	9 t Axle load (heavy traffic)	NO, per con- nection, 2 connecting pieces 39870053 required 	39870052	4,4	1	

Enclosures PC/ABS free of silicone and halogen
Protection class II
Flammability class V0

Wiring diagram 6570001	Outputs	Enclosure
 <p>3/N/PE~50Hz 400V up to 6* 16A 16A 16A 16A Protective contact sockets</p>	<p>Prot. contact sockets 4 x 16 A</p>	<p>657: H: 237 mm W: 125 mm D: 100,5 mm</p> <p>Knock-outs top: 2 x M20/25 bottom: 2 x M20/25</p> <p>Weight 1,0 kg</p>
 <p>1/N/PE~50Hz 230V up to 6* 25/0,03A 16A C 16A C 16A 16A Protective contact sockets</p>	<p>Prot. contact sockets 2 x 16 A</p>	<p>659: H: 237 mm W: 125 mm D: 124 mm</p> <p>Knock-outs top: 2 x M20/25 bottom: 2 x M20/25</p> <p>Weight 1,1 kg</p>
 <p>3/N/PE~50Hz 400V up to 25* 40/0,03A 16A C 16A C 16A C 16A C 16A C 16A C 16A 16A 16A 16A 16A 16A Protective contact sockets</p>	<p>Prot. contact sockets 6 x 16 A</p>	<p>698: H: 370 mm W: 183 mm D: 152 mm</p> <p>Knock-outs top: 2 x M25/32/40 bottom: 2 x M25/32/40</p> <p>Weight 3,7 kg</p>
 <p>3/N/PE~50Hz 400V up to 25* 40/0,03A 16A C 16A C 16A C 16A CEE 16A 16A 16A Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V 1 x 16 A</p> <p>Prot. contact sockets 2 x 16 A</p>	<p>692: H: 237 mm W: 183 mm D: 152 mm</p> <p>Knock-outs top: 2 x M25/32/40 bottom: 2 x M25/32/40</p> <p>Weight 2,5 kg</p>

6570001

- 4 Protective contact sockets, type 10003AA
- Connection up to 6 mm² 5-pole
- Overall protection degree IP44



6590006

- 2 Protective contact sockets, type 10003AA
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 2-pole 25/0,03A
- Connection up to 6 mm² 3-pole
- Overall protection degree IP44



6980003

- 6 Protective contact sockets, type 10003AA
- 6 Miniature circuit breakers (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 1 Terminal block set K25 10-pole
- Overall protection degree IP44



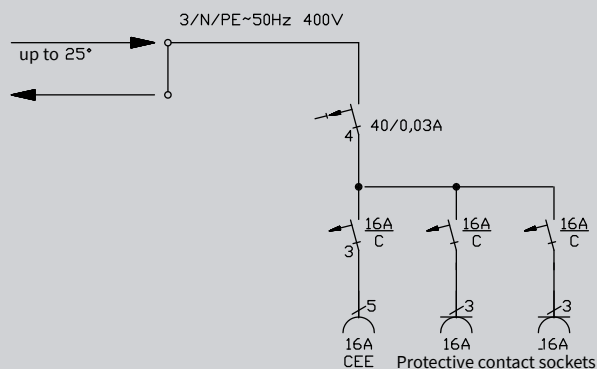
6920117

- 1 CEE panel sockets 5 x 16A, type 410
- 2 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breakers (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- Connection up to 25 mm² 10-pole
- Overall protection degree IP44



Enclosures PC/ABS free of silicone and halogen
Protection class II
Flammability class V0

Wiring diagram 6980128



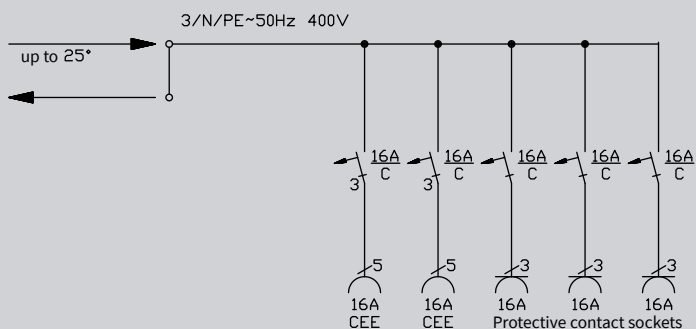
Outputs

- CEE panel sockets
5-pole 400 V
- 1 x 16 A
- Prot. contact sockets
- 2 x 16 A
- Data socket
- 2 x RJ45

Enclosure

698:
H: 370 mm
W: 183 mm
D: 152 mm
Knock-outs top:
2 x M25/32/40
bottom:
2 x M25/32/40
Weight
3,4 kg

Wiring diagram 6980203



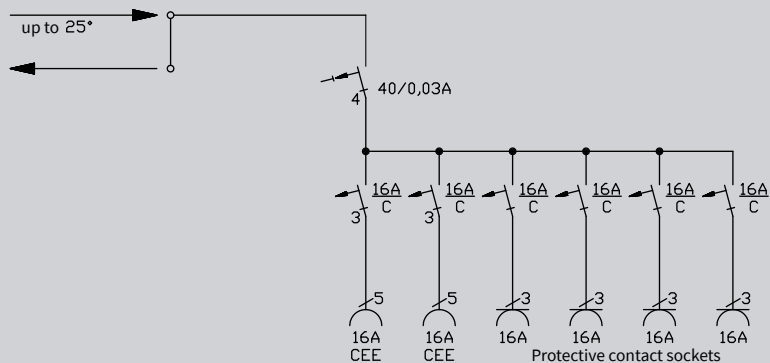
Outputs

- CEE panel sockets
5-pole 400 V
- 2 x 16 A
- Prot. contact sockets
- 3 x 16 A

Enclosure

698:
H: 370 mm
W: 183 mm
D: 152 mm
Knock-outs top:
2 x M25/32/40
bottom:
2 x M25/32/40
Weight
3,8 kg

Wiring diagram 6820211



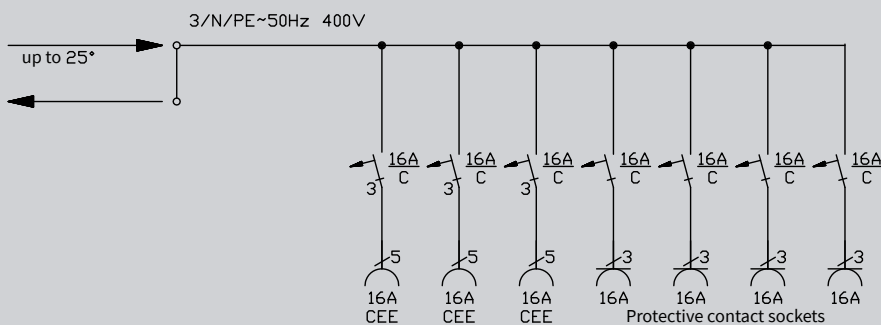
Outputs

- CEE panel sockets
5-pole 400 V
- 2 x 16 A
- Prot. contact sockets
- 4 x 16 A

Enclosure

682:
H: 404 mm
W: 290 mm
D: 172 mm
Knock-outs top:
3 x M40/50
bottom:
3 x M40/50
Weight
6,3 kg

Wiring diagram 6820306



Outputs

- CEE panel sockets
5-pole 400 V
- 3 x 16 A
- Prot. contact sockets
- 4 x 16 A

Enclosure

682:
H: 404 mm
W: 290 mm
D: 172 mm
Knock-outs top:
3 x M40/50
bottom:
3 x M40/50
Weight
6,3 kg

6980128

- 1 CEE panel sockets 5 x 16A, type 410
 - 2 Protective contact sockets, type 10003AA
 - 1 Miniature circuit breaker (MCB) 3-pole 16A C
 - 2 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 40/0,03A
 - 1 Terminal block set, 25 mm² 10-pole
 - 1 Double data socket RJ45 color yellow Kat.6
- Overall protection degree IP44



6980203

- 2 CEE panel sockets 5 x 16A, type 410
 - 3 Protective contact sockets, type 10003AA
 - 2 Miniature circuit breaker (MCB) 3-pole 16A C
 - 3 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Terminal block set, 25 mm² 10-pole
- Overall protection degree IP44



6820211

- 2 CEE panel sockets 5 x 16A, type 410
 - 4 Protective contact sockets, type 10003AA
 - 2 Miniature circuit breaker (MCB) 3-pole 16A C
 - 4 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 40/0,03A
 - 1 Terminal block set, 25 mm² 10-pole
- Overall protection degree IP44



6820306

- 3 CEE panel sockets 5 x 16A, type 410
 - 4 Protective contact sockets, type 10003AA
 - 3 Miniature circuit breaker (MCB) 3-pole 16A C
 - 4 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Terminal block set, 25 mm² 10-pole
- Overall protection degree IP44



Enclosures PC/ABS free of silicone and halogen
Protection class II
Flammability class V0

Wiring diagram 6591105	Outputs	Enclosure
	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 32 A</p>	<p>659: H: 237 mm W: 125 mm D: 124 mm</p> <p>Knock-outs top: 2 x M20/25 bottom: 2 x M20/25</p> <p>Weight 1,4 kg</p>
Wiring diagram 6581104	Outputs	Enclosure
	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 32 A</p> <p>Prot. contact sockets 1 x 16 A</p>	<p>658: H: 237 mm W: 125 mm D: 124 mm</p> <p>Knock-outs top: 2 x M20/25 bottom: 2 x M20/25</p> <p>Weight 1,6 kg</p>
Wiring diagram 6921109	Outputs	Enclosure
	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 32 A</p> <p>Prot. contact sockets 2 x 16 A</p>	<p>692: H: 237 mm W: 183 mm D: 152 mm</p> <p>Knock-outs top: 2 x M25/32/40 bottom: 2 x M25/32/40</p> <p>Weight 2,6 kg</p>
Wiring diagram 6821202	Outputs	Enclosure
	<p>CEE panel sockets 5-pole 400 V</p> <p>2 x 32 A</p> <p>Prot. contact sockets 3 x 16 A</p>	<p>682: H: 404 mm W: 290 mm D: 171 mm</p> <p>Knock-outs top: 3 x M40/50 bottom: 3 x M40/50</p> <p>Weight 6,3 kg</p>

6591105

- 1 CEE panel sockets 5 x 32A, type 430
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 6 mm² 5-pole
Overall protection degree IP44



6581104

- 1 CEE panel sockets 5 x 32A, type 530
- 1 Protective contact socket, type 10003AA
- 1 Miniature circuit breaker (MCB) 1-pole 16A C
Connection up to 6 mm² 5-pole
Overall protection degree IP44



6921109

- 1 CEE panel sockets 5 x 32A, type 430
- 2 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 32A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 25 mm² 10-pole
Overall protection degree IP44



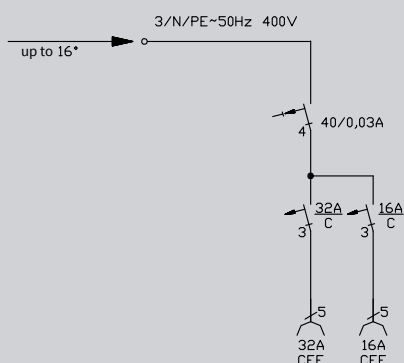
6821202

- 2 CEE panel sockets 5 x 32A, type 430
- 3 Protective contact sockets, type 10003AA
- 2 Miniature circuit breaker (MCB) 3-pole 32A C
- 3 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 63/0,03A
- 1 Terminal block set, 25 mm² 10-pole
Overall protection degree IP44



Enclosures PC/ABS free of silicone and halogen
Protection class II
Flammability class V0

Wiring diagram 6923015



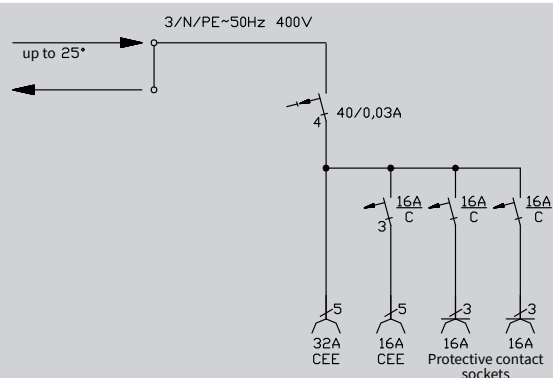
Outputs

- CEE panel sockets**
5-pole 400 V
- 1 x 32 A
- 1 x 16 A

Enclosure

692:
H: 237 mm
W: 183 mm
D: 152 mm
Knock-outs top:
2 x M25/32/40
bottom:
2 x M25/32/40
Weight
2,7 kg

Wiring diagram 6983012



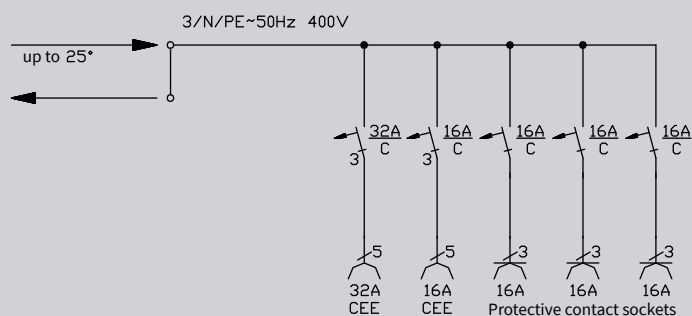
Outputs

- CEE panel sockets**
5-pole 400 V
- 1 x 32 A
- 1 x 16 A
- Prot. contact sockets**
2 x 16 A

Enclosure

698:
H: 370 mm
W: 183 mm
D: 152 mm
Knock-outs top:
2 x M25/32/40
bottom:
2 x M25/32/40
Weight
3,9 kg

Wiring diagram 6983001



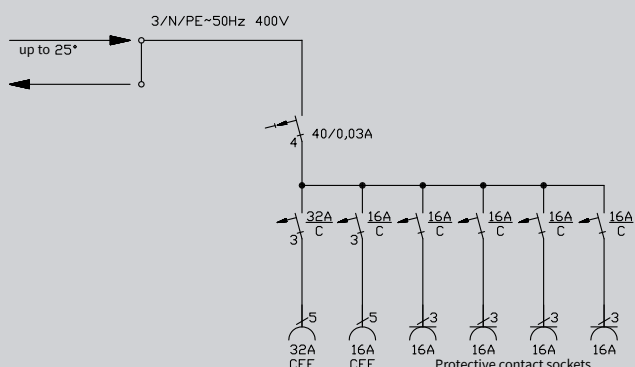
Outputs

- CEE panel sockets**
5-pole 400 V
- 1 x 32 A
- 1 x 16 A
- Prot. contact sockets**
3 x 16 A

Enclosure

698:
H: 370 mm
W: 183 mm
D: 152 mm
Knock-outs top:
2 x M25/32/40
bottom:
2 x M25/32/40
Weight
4,0 kg

Wiring diagram 6823012



Outputs

- CEE panel sockets**
5-pole 400 V
- 1 x 32 A
- 1 x 16 A
- Prot. contact sockets**
4 x 16 A

Enclosure

682:
H: 404 mm
W: 290 mm
D: 171 mm
Knock-outs top:
3 x M40/50
bottom:
3 x M40/50
Weight
6,3 kg

6923015

- 1 CEE panel sockets 5 x 32A, type 430
- 1 CEE panel sockets 5 x 16A, type 410
- 1 Miniature circuit breaker (MCB) 3-pole 32A C
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- Connection up to 16 mm² 5-pole
- Overall protection degree IP44



6983012

- 1 CEE panel sockets 5 x 32A, type 430
- 1 CEE panel sockets 5 x 16A, type 410
- 2 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 1 Terminal block set, 25 mm², 10-pole
- Overall protection degree IP44



6983001

- 1 CEE panel sockets 5 x 32A, type 430
- 1 CEE panel sockets 5 x 16A, type 410
- 3 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 32A C
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 3 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Terminal block set, 25 mm², 10-pole
- Overall protection degree IP44



6823012

- 1 CEE panel sockets 5 x 32A, type 430
- 1 CEE panel sockets 5 x 16A, type 410
- 4 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 32A C
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 4 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 1 Terminal block set, 25 mm², 10-pole
- Overall protection degree IP44



Enclosures PC/ABS free of silicone and halogen
Protection class II
Flammability class V0

Wiring diagram 6823302	Outputs	Enclosure
	<p>CEE panel sockets 5-pole 400 V</p> <p>2 x 32 A 2 x 16 A</p> <p>Prot. contact sockets 2 x 16 A</p>	<p>682: H: 404 mm W: 290 mm D: 171 mm</p> <p>Knock-outs top: 3 x M40/50 bottom: 3 x M40/50</p> <p>Weight 6,8 kg</p>
	<p>CEE panel sockets 5-pole 400 V</p> <p>2 x 32 A 2 x 16 A</p> <p>Prot. contact sockets 3 x 16 A</p>	<p>689: H: 655 mm W: 290 mm D: 171 mm</p> <p>Knock-outs top: 3 x M40/50 bottom: 3 x M40/50</p> <p>Weight 9,8 kg</p>
	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 63 A 1 x 32 A 1 x 16 A</p> <p>Prot. contact sockets 2 x 16 A</p>	<p>682: H: 404 mm W: 290 mm D: 171 mm</p> <p>Knock-outs top: 3 x M40/50 bottom: 3 x M40/50</p> <p>Weight 7,2 kg</p>
	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 63 A 2 x 32 A 2 x 16 A</p> <p>Prot. contact sockets 3 x 16 A</p>	<p>685: H: 809 mm W: 290 mm D: 171 mm</p> <p>Knock-outs top: 3 x M40/50 bottom: 3 x M40/50</p> <p>Weight 13,8 kg</p>

6823302

- 2 CEE panel sockets 5 x 32A, type 430
 - 2 CEE panel sockets 5 x 16A, type 410
 - 2 Protective contact sockets, type 10003AA
 - 2 Miniature circuit breaker (MCB) 3-pole 32A C
 - 2 Miniature circuit breaker (MCB) 3-pole 16A C
 - 1 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Terminal block set, 25 mm², 10-pole
- Overall protection degree IP44



6893311

- 2 CEE panel sockets 5 x 32A, type 430
 - 2 CEE panel sockets 5 x 16A, type 410
 - 3 Protective contact sockets, type 10003AA
 - 2 Miniature circuit breaker (MCB) 3-pole 32A C
 - 2 Miniature circuit breaker (MCB) 3-pole 16A C
 - 3 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 1 Terminal block set, 25 mm², 10-pole
- Overall protection degree IP44



6824403

- 1 CEE panel sockets 5 x 63A, type 560
 - 1 CEE panel sockets 5 x 32A, type 430
 - 1 CEE panel sockets 5 x 16A, type 410
 - 2 Protective contact sockets, type 10003AA
 - 1 Miniature circuit breaker (MCB) 3-pole 32A C
 - 1 Miniature circuit breaker (MCB) 3-pole 16A C
 - 2 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 1 Terminal block set, 25 mm², 10-pole
- Overall protection degree IP44



6854705

- 1 CEE panel sockets 5 x 63A, type 560
 - 1 Miniature circuit breaker (MCB) 3-pole 63A C
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 2 CEE panel sockets 5 x 32A, type 430
 - 2 CEE panel sockets 5 x 16A, type 410
 - 3 Protective contact sockets, type 10003AA
 - 1 Miniature circuit breaker (MCB) 3-pole 32A C
 - 2 Miniature circuit breaker (MCB) 3-pole 16A C
 - 3 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 1 Miniature circuit breaker (MCB) 3-pole 63A C
 - 1 Terminal block set, 35 mm², 10-pole
- Overall protection degree IP44



Enclosures PC/ABS free of silicone and halogen
Protection class II
Flammability class V0

Wiring diagram 6570106x7	Outputs	Enclosure
	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 16 A</p> <p>Prot. contact sockets 1 x 16 A</p>	<p>657: H: 237 mm W: 125 mm D: 100,5 mm</p> <p>Knock-outs top: 2 x M20/25 bottom: 2 x M20/25</p> <p>Weight 1,0 kg</p>
Wiring diagram 6983012x7	Outputs	Enclosure
	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 32 A</p> <p>1 x 16 A</p> <p>Prot. contact sockets 2 x 16 A</p>	<p>698: H: 370 mm W: 183 mm D: 152 mm</p> <p>Knock-outs top: 2 x M25/32/40 bottom: 2 x M25/32/40</p> <p>Weight 4,1 kg</p>
Wiring diagram 6823010x7	Outputs	Enclosure
	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 32 A</p> <p>1 x 16 A</p> <p>Prot. contact sockets 2 x 16 A</p>	<p>682: H: 404 mm W: 290 mm D: 171 mm</p> <p>Knock-outs top: 3 x M40/50 bottom: 3 x M40/50</p> <p>Weight 6,2 kg</p>
Wiring diagram 6824403x7	Outputs	Enclosure
	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 63 A</p> <p>1 x 32 A</p> <p>1 x 16 A</p> <p>Prot. contact sockets 2 x 16 A</p>	<p>682: H: 404 mm W: 290 mm D: 171 mm</p> <p>Knock-outs top: 3 x M40/50 bottom: 3 x M40/50</p> <p>Weight 7,5 kg</p>

6570106x7

- 1 CEE panel sockets 5 x 16A, type 419
- 1 Protective contact socket, type 10034
Connection up to 6 mm² 5-pole
Overall protection degree IP67



6983012x7

- 1 CEE panel sockets 5 x 32A, type 439
- 1 CEE panel socket 5 x 16A, type 419
- 2 Protective contact sockets, type 10034
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breakers (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 1 Terminal block set, 25 mm², 10-pole
Overall protection degree IP67



6823010x7

- 1 CEE panel sockets 5 x 32A, type 439
- 1 CEE panel sockets 5 x 16A, type 419
- 2 Protective contact sockets, type 10034
- 1 Miniature circuit breaker (MCB) 3-pole 32A C
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 1 Terminal block set, 25 mm², 10-pole
Overall protection degree IP67



6824403x7

- 1 CEE panel sockets 5 x 63A, type 569
- 1 CEE panel sockets 5 x 32A, type 439
- 1 CEE panel sockets 5 x 16A, type 419
- 2 Protective contact sockets, type 10034
- 1 Miniature circuit breaker (MCB) 3-pole 32A C
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 63/0,03A
- 1 Terminal block set, 25mm², 10-pole
Overall protection degree IP67



PBT chemical resistant
Enclosures free of silicone and halogen
Protection class II

Wiring diagram 6570106x7CB	Outputs	Enclosure
	<ul style="list-style-type: none"> CEE panel sockets 5-pole 400 V 1 x 16 A Prot. contact sockets 1 x 16 A 	<p>657: H: 237 mm W: 125 mm D: 100,5 mm</p> <p>Knock-outs top: 2 x M20/25 bottom: 2 x M20/25</p> <p>Weight 1,1 kg</p>
	<ul style="list-style-type: none"> CEE panel sockets 5-pole 400 V 1 x 16 A Prot. contact sockets 2 x 16 A 	<p>692: H: 237 mm W: 183 mm D: 152 mm</p> <p>Knock-outs top: 2 x M25/32/40 bottom: 2 x M25/32/40</p> <p>Weight 2,6 kg</p>
	<ul style="list-style-type: none"> CEE panel sockets 5-pole 400 V 1 x 32 A 1 x 16 A Prot. contact sockets 2 x 16 A 	<p>682: H: 404 mm W: 290 mm D: 171 mm</p> <p>Knock-outs top: 3 x M40/50 bottom: 3 x M40/50</p> <p>Weight 6,5 kg</p>
	<ul style="list-style-type: none"> CEE panel sockets 5-pole 400 V 2 x 16 A Prot. contact sockets 4 x 16 A 	<p>6H0: H: 374 mm W: 136 mm D: 195 mm</p> <p>Cable entry: 1 x M25</p> <p>Weight 2,2 kg</p>

6570106x7CB

- 1 CEE panel sockets 5 x 16A, type 419
- 1 Protective contact socket, type 10034
Connection up to 6 mm² 5-pole
Overall protection degree IP67

All contacts nickel-plated,
All exterior metal parts A2



6920117CB

- 1 CEE panel sockets 5 x 16A, type 410Vern
- 2 Protective contact sockets, type 10003
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 25 mm² 10-pole
Overall protection degree IP44

All contacts nickel-plated,
All exterior metal parts A2



6823010x7CB

- 1 CEE panel sockets 5 x 32A, type 439
- 1 CEE panel sockets 5 x 16A, type 419
- 2 Protective contact sockets, type 10034
- 1 Miniature circuit breaker (MCB) 3-pole 32A C
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 1 Terminal block set, 25 mm², 10-pole
Overall protection degree IP67

All contacts nickel-plated,
All exterior metal parts A2



6H00203CB

- 2 CEE panel sockets 5 x 16A, type 410Vern
- 4 Protective contact sockets, type 10003
Connection up to 6 mm² 5-pole
Overall protection degree IP44

All contacts nickel-plated,
All exterior metal parts A2

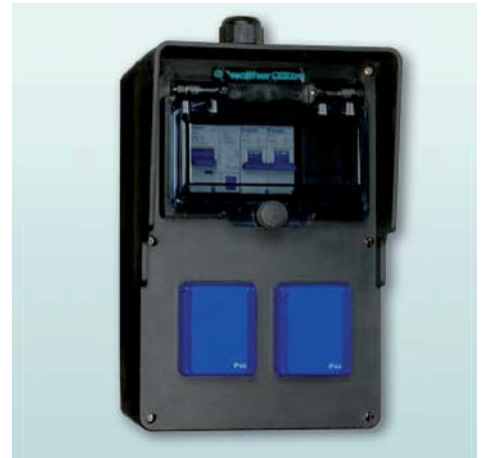


Unbreakable enclosure, aging, acid and alkali resistant.
All exterior metal parts made of stainless steel.
Protection class II

Wiring diagram 6440002	Outputs	Enclosure
	Prot. contact sockets 2 x 16 A	644: H: 250 mm W: 162 mm D: 152 mm Cable entry, top: 1 x M25 Weight 3,1 kg
Wiring diagram 6450102	Outputs	Enclosure
	CEE panel sockets 5-pole 400 V 1 x 16 A Prot. contact sockets 2 x 16 A	645: H: 338 mm W: 218 mm D: 172 mm Cable entry, top or bottom: 1 x M32 Weight 5,7 kg
Wiring diagram 6470202	Outputs	Enclosure
	CEE panel sockets 5-pole 400 V 2 x 16 A Prot. contact sockets 3 x 16 A	647: H: 370 mm W: 248 mm D: 190 mm Cable entry, top or bottom: 1 x M32 Weight 8,4 kg
Wiring diagram 6441101	Outputs	Enclosure
	CEE panel sockets 5-pole 400 V 1 x 16 A	644: H: 250 mm W: 162 mm D: 152 mm Cable entry, top: 1 x M32 Weight 3,1 kg

6440002

- 2 Protective contact sockets, type 10003AA
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 2-pole 25/0,03A
- 1 Connection 16 mm² 3-pole
- Overall protection degree IP44



6450102

- 1 CEE panel sockets 5 x 16A, type 510
- 2 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- Connection 25 mm² 5-pole
- Overall protection degree IP44



6470202

- 2 CEE panel sockets 5 x 16A, type 510
- 3 Protective contact sockets, type 10003AA
- 2 Miniature circuit breaker (MCB) 3-pole 16A C
- 3 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 1 Terminal block set, 25 mm², 10-pole
- Overall protection degree IP44



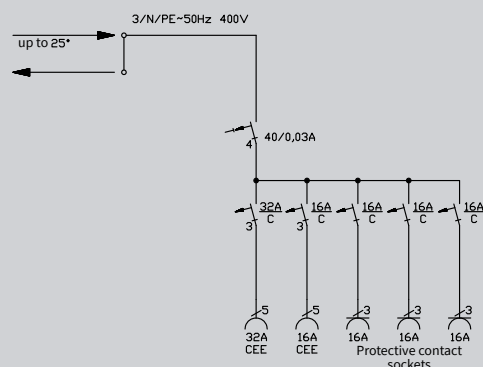
6441101

- 1 CEE panel sockets 5 x 32A, type 530
- 1 Residual current device (RCD) 4-pole 40/0,03A
- Connection up to 25 mm² 5-pole
- Overall protection degree IP44



Unbreakable enclosure, aging, acid and alkali resistant.
All exterior metal parts made of stainless steel.
Protection class II

Wiring diagram 6473010



Outputs

CEE panel sockets
5-pole 400 V

1 x 32 A

1 x 16 A

Prot. contact sockets

3 x 16 A

Enclosure

647:

H: 370 mm

W: 248 mm

D: 190 mm

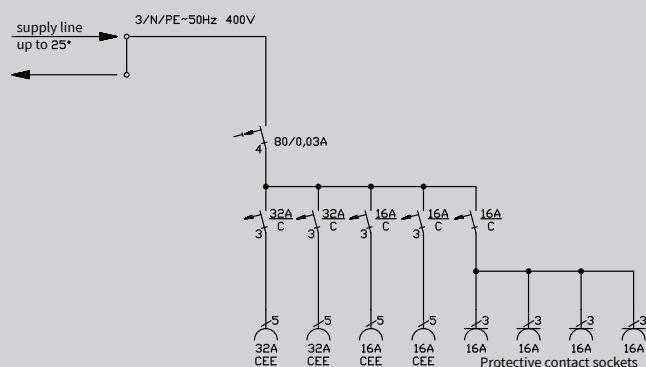
Cable entry on bottom:

1 x M32

Weight

8,6 kg

Wiring diagram 6483311



Outputs

CEE panel sockets
5-pole 400 V

2 x 32 A

2 x 16 A

Prot. contact sockets

4 x 16 A

Enclosure

648:

H: 419 mm

W: 340 mm

D: 220 mm

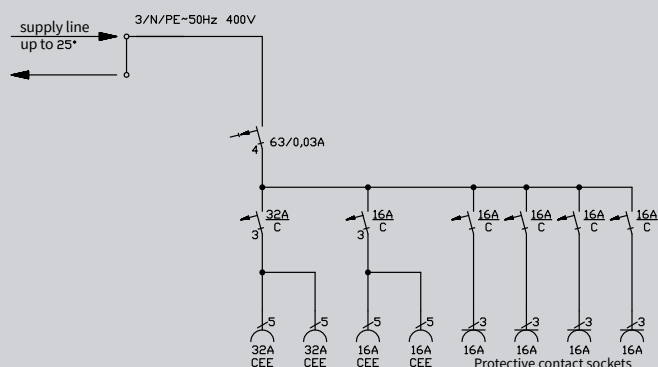
Cable entry on bottom:

1 x M40

Weight

13,8 kg

Wiring diagram 6483306



Outputs

CEE panel sockets
5-pole 400 V

2 x 32 A

2 x 16 A

Prot. contact sockets

4 x 16 A

Enclosure

648:

H: 419 mm

W: 340 mm

D: 220 mm

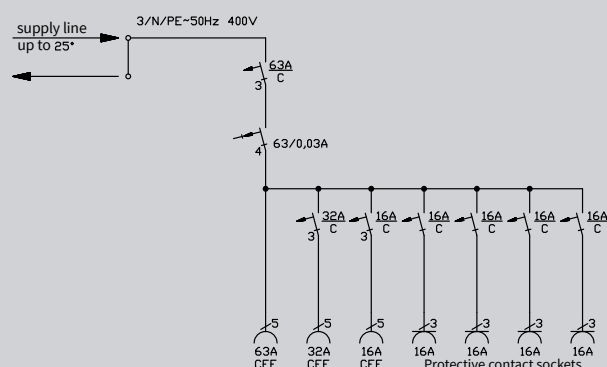
Cable entry on bottom:

1 x M40

Weight

13,6 kg

Wiring diagram 6484404



Outputs

CEE panel sockets
5-pole 400 V

1 x 63 A

1 x 32 A

1 x 16 A

Prot. contact sockets

4 x 16 A

Enclosure

648:

H: 419 mm

W: 340 mm

D: 220 mm

Cable entry on bottom:

1 x M40

Weight

14,1 kg

6473010

- 1 CEE panel sockets 5 x 32A, type 530
 - 1 CEE panel sockets 5 x 16A, type 510
 - 3 Protective contact sockets, type 10003AA
 - 1 Miniature circuit breaker (MCB) 3-pole 32A C
 - 1 Miniature circuit breaker (MCB) 3-pole 16A C
 - 3 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 40/0,03A
 - 1 Terminal block set, 25 mm², 10-pole
- Overall protection degree IP44



6483311

- 2 CEE panel sockets 5 x 32A, type 530
 - 2 CEE panel sockets 5 x 16A, type 510
 - 4 Protective contact sockets, type 10003AA
 - 2 Miniature circuit breaker (MCB) 3-pole 32A C
 - 2 Miniature circuit breaker (MCB) 3-pole 16A C
 - 1 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 80/0,03A
 - 1 Terminal block set, 25 mm², 10-pole
- Overall protection degree IP44



6483306

- 2 CEE panel sockets 5 x 32A, type 530
 - 2 CEE panel sockets 5 x 16A, type 510
 - 4 Protective contact sockets, type 10003AA
 - 1 Miniature circuit breaker (MCB) 3-pole 32A C
 - 1 Miniature circuit breaker (MCB) 3-pole 16A C
 - 4 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 1 Terminal block set, 25 mm², 10-pole
- Overall protection degree IP44



6484404

- 1 CEE panel sockets 5 x 63A, type 560
 - 1 CEE panel sockets 5 x 32A, type 530
 - 1 CEE panel sockets 5 x 16A, type 510
 - 4 Protective contact sockets, type 10003AA
 - 1 Miniature circuit breaker (MCB) 3-pole 32A C
 - 1 Miniature circuit breaker (MCB) 3-pole 16A C
 - 4 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 1 Miniature circuit breaker (MCB) 3-pole 63A C as backup fuse
 - 1 Terminal block set, 25 mm², 10-pole
- Overall protection degree IP44



Enclosure PC/ABS silicone and halogen-free
Protection class II, color RAL 1016/9005
2 suspension lugs, 1 handle

Wiring diagram 6H10005	Outputs	Enclosure
	Prot. contact sockets 4 x 16 A	6H1: H: 374 mm W: 136 mm D: 221 mm Cable gland on top: 1 x M25 Weight 2,0 kg
	Prot. contact sockets 6 x 16 A	6H2: H: 374 mm W: 136 mm D: 242 mm Cable gland on top: 1 x M25 Weight 3,2 kg
	CEE panel sockets 5-pole 400 V 1 x 16 A Prot. contact sockets 2 x 16 A	6H0: H: 374 mm W: 136 mm D: 195 mm Cable gland on top: 1 x M25 Weight 2,5 kg
	CEE panel sockets 5-pole 400 V 1 x 16 A Prot. contact sockets 2 x 16 A Data socket 4 x RJ45	6H2: H: 374 mm W: 136 mm D: 242 mm Cable gland on top: 1 x M25/1 x M32 4-fold gasket Weight 2,7 kg

6H10005

- 4 Protective contact sockets, type 10003AA
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 6 mm² 5-pole
Overall protection degree IP44



6H20009

- 6 Protective contact sockets, type 10003AA
- 3 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 6 mm² 5-pole
Overall protection degree IP44



6H00102

- 1 CEE panel sockets 5 x 16A, type 410
- 2 Protective contact sockets, type 10003AA
Connection up to 6 mm² 5-pole
Overall protection degree IP44



6H20120

- 1 CEE panel sockets 5 x 16A, type 410
- 2 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 1 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 6 mm² 5-pole
- 2 Double data sockets RJ45, color yellow, Kat.6
Overall protection degree IP44



Enclosure PC/ABS silicone and halogen-free
Protection class II, color RAL 1016/9005
2 suspension lugs, 1 handle

Wiring diagram 6H10204	Outputs	Enclosure
<p>3/N/PE~50Hz 400V up to 6* 40/0,03A 16A CEE 16A CEE 16A Protective contact sockets 16A 16A 16A 16A</p>	<p>CEE panel sockets 5-pole 400 V 2 x 16 A</p> <p>Prot. contact sockets 4 x 16 A</p>	<p>6H1: H: 374 mm W: 136 mm D: 221 mm</p> <p>Cable gland on top: 1 x M25</p> <p>Weight 2,7 kg</p>
Wiring diagram 6H41103	Outputs	Enclosure
<p>3/N/PE~50Hz 400V up to 6* 40/0,03A 32A C 16A C 16A C 32A CEE 16A 16A 16A 16A 16A Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V 1 x 32 A</p> <p>Prot. contact sockets 4 x 16 A</p> <p>Data socket 4 x RJ45</p>	<p>6H4: H: 374 mm W: 183 mm D: 253 mm</p> <p>Cable gland on top: 2 x M32 1 x 4-fold gland</p> <p>Weight 3,7 kg</p>
Wiring diagram 6H23004LA	Outputs	Enclosure
<p>3/N/PE~50Hz 400V up to 6* 40/0,03A 16A C 16A C 32A CEE 16A CEE 16A 16A Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V 1 x 32 A 1 x 16 A</p> <p>Prot. contact sockets 2 x 16 A</p>	<p>6H2: H: 450 mm W: 136 mm D: 242 mm</p> <p>Cable gland on top: 1 x M25</p> <p>Weight 3,7 kg</p>
Wiring diagram 6H53004LA	Outputs	Enclosure
<p>3/N/PE~50Hz 400V up to 25* 40/0,03A 32A C 16A C 16A C 16A C 32A CEE 16A CEE 16A 16A Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V 1 x 32 A 1 x 16 A</p> <p>Prot. contact sockets 2 x 16 A</p>	<p>6H5: H: 450 mm W: 183 mm D: 253 mm</p> <p>Cable gland on top: 1 x M40</p> <p>Weight 4,8 kg</p>

6H10204

- 2 CEE panel sockets 5 x 16A, type 410
- 4 Protective contact sockets, type 10003AA
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 6 mm² 5-pole
Overall protection degree IP44



6H41103

- 1 CEE panel sockets 5 x 32A, type 430
- 4 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 32A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 6 mm² 5-pole
- 2 Double data sockets, RJ45, color yellow, Kat.6
Overall protection degree IP44



6H23004LA

- 1 CEE panel sockets 5 x 32A, type 430
- 1 CEE panel sockets 5 x 16A, type 410
- 2 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 1 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 25 mm² 5-pole
Compressed air connection on top and bottom, internal thread 1/2"
Compressed air class: 5
Operating pressure: < 16 bar
Overall protection degree IP44



6H53004LA

- 1 CEE panel sockets 5 x 32A, type 430
- 1 CEE panel sockets 5 x 16A, type 410
- 2 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 32A C
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 25 mm² 5-pole
Compressed air connection on top and bottom, internal thread 1/2"
Compressed air class: 5
Operating pressure: < 16 bar
Overall protection degree IP44



Enclosures PC/ABS silicone and halogen-free
Protection class II
Flammability class V0

Wiring diagram 6980018	Outputs	Enclosure
<p>CEE plug 5x32A type 230SL with 2 meters rubber-sheathed cable H07RN-F5G6</p> <p>3/N/PE~50Hz 400V</p> <p>40/0,03A</p> <p>16A C</p> <p>3 16A</p> <p>Protective contact sockets</p>	<p>Prot. contact sockets</p> <p>6 x 16 A</p>	<p>698: H: 370 mm W: 183 mm D: 152 mm</p> <p>Weight 4,8 kg</p>
Wiring diagram 6920143	Outputs	Enclosure
<p>CEE plug 5x32A type 230SL with 2 meters rubber-sheathed cable H07RN-F5G6</p> <p>3/N/PE~50Hz 400V</p> <p>40/0,03A</p> <p>16A C</p> <p>3 16A</p> <p>5 16A CEE</p> <p>Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 16 A</p> <p>Prot. contact sockets</p> <p>2 x 16 A</p>	<p>692: H: 237 mm W: 183 mm D: 152 mm</p> <p>Weight 4,3 kg</p>
Wiring diagram 6920208	Outputs	Enclosure
<p>CEE plug 5x32A type 230SL with 2 meters rubber-sheathed cable H07RN-F5G6</p> <p>3/N/PE~50Hz 400V</p> <p>40/0,03A</p> <p>16A C</p> <p>3 16A</p> <p>5 16A CEE</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>2 x 16 A</p>	<p>692: H: 237 mm W: 183 mm D: 152 mm</p> <p>Weight 4,2 kg</p>
Wiring diagram 6983039	Outputs	Enclosure
<p>CEE plug 5x32A type 230SL with 2 meters rubber-sheathed cable H07RN-F5G6</p> <p>3/N/PE~50Hz 400V</p> <p>40/0,03A</p> <p>16A C</p> <p>3 16A</p> <p>5 32A CEE</p> <p>3 16A</p> <p>3 16A</p> <p>3 16A</p> <p>3 16A</p> <p>Protective contact sockets</p> <p>5 16A CEE</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 32 A</p> <p>1 x 16 A</p> <p>Prot. contact sockets</p> <p>3 x 16 A</p>	<p>698: H: 370 mm W: 183 mm D: 152 mm</p> <p>Weight 2,2 kg</p>

6980018

- 6 Protective contact sockets, type 10003AA
- 6 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 2 m connection line H07RN-F5G6
with CEE plug 5 x 32A, type 230SL
- Overall protection degree IP44



6920143

- 1 CEE panel sockets 5 x 16A, type 410
- 2 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 2 m connection line H07RN-F5G6
with CEE plug 5 x 32A, type 230SL
- Overall protection degree IP44



6920208

- 2 CEE panel sockets 5 x 16A, type 410
- 2 Miniature circuit breaker (MCB) 3-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 2 m connection line H07RN-F5G6
with CEE plug 5 x 32A, type 230SL
- Overall protection degree IP44



6983039

- 1 CEE panel sockets 5 x 32A, type 430
- 1 CEE panel sockets 5 x 16A, type 410
- 3 Protective contact sockets, type 10003AA
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 3 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 2 m connection line H07RN-F5G6
with CEE plug 5 x 32A, type 230SL
- Overall protection degree IP44



Unbreakable enclosure, aging, acid and alkali resistant.
All exterior metal parts made of stainless steel.
Protection class II,
stackable

Wiring diagram 6490016A	Outputs	Enclosure
<p>CEE plug 5x16A type 210SL with 2 meters rubber-sheathed cable H07RN-F5G2,5</p> <p>3/N/PE~50Hz 400V</p> <p>40/0,03A</p> <p>16A 16A 16A 16A 16A 16A</p> <p>Protective contact sockets</p>	<p>Prot. contact sockets</p> <p>6 x 16 A</p>	<p>649: H: 339 mm W: 270 mm D: 280 mm</p> <p>Weight 7,2 kg</p>
Wiring diagram 6430203A	Outputs	Enclosure
<p>CEE plug 5x16A type 210SL with 2 meters rubber-sheathed cable H07RN-F5G2,5</p> <p>3/N/PE~50Hz 400V</p> <p>40/0,03A</p> <p>16A CEE 16A CEE 16A 16A 16A 16A</p> <p>Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>2 x 16 A</p> <p>Prot. contact sockets</p> <p>4 x 16 A</p>	<p>643: H: 339 mm W: 270 mm D: 280 mm</p> <p>Weight 7.0 kg</p>
Wiring diagram 6490223	Outputs	Enclosure
<p>CEE plug 5x32A type 230SL with 2 meters rubber-sheathed cable H07RN-F5G6</p> <p>3/N/PE~50Hz 400V</p> <p>40/0,03A</p> <p>16A C 16A C 16A C</p> <p>16A CEE 16A 16A 16A 16A</p> <p>Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>2 x 16 A</p> <p>Prot. contact sockets</p> <p>4 x 16 A</p>	<p>649: H: 339 mm W: 270 mm D: 280 mm</p> <p>Weight 9,0 kg</p>
Wiring diagram 6493025	Outputs	Enclosure
<p>CEE panel mount appliance inlet 5x32A type 631</p> <p>3/N/PE~50Hz 400V</p> <p>40/0,03A</p> <p>32A CEE 16A CEE 16A C 16A C 16A C</p> <p>Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 32 A</p> <p>1 x 16 A</p> <p>Prot. contact sockets</p> <p>3 x 16 A</p>	<p>649: H: 339 mm W: 270 mm D: 280 mm</p> <p>Weight 7,4 kg</p>

6490016A

- 6 Protective contact sockets acc. to DIN/VDE 0620-1
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 2 m connection line H07RN-F5G2,5 with CEE plug 5 x 16A, type 210SL
- Overall protection degree IP44



6430203A

- 2 CEE panel sockets 5 x 16A, type 410
- 4 Protective contact sockets acc. to DIN/VDE 0620-1
- 2 m connection line H07RN-F5G2,5 with CEE plug 5 x 16A, type 210SL
- Overall protection degree IP44



Stock item

6490223

- 2 CEE panel sockets 5 x 16A, type 410
- 4 Protective contact sockets acc. to DIN/VDE 0620-1
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 2 m connection line H07RN-F5G6 with CEE plug 5 x 32A, type 230SL
- Overall protection degree IP44



Stock item

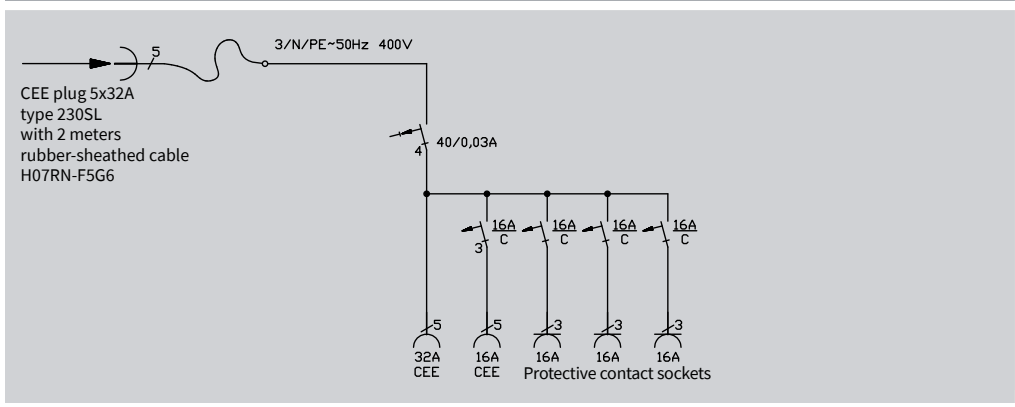
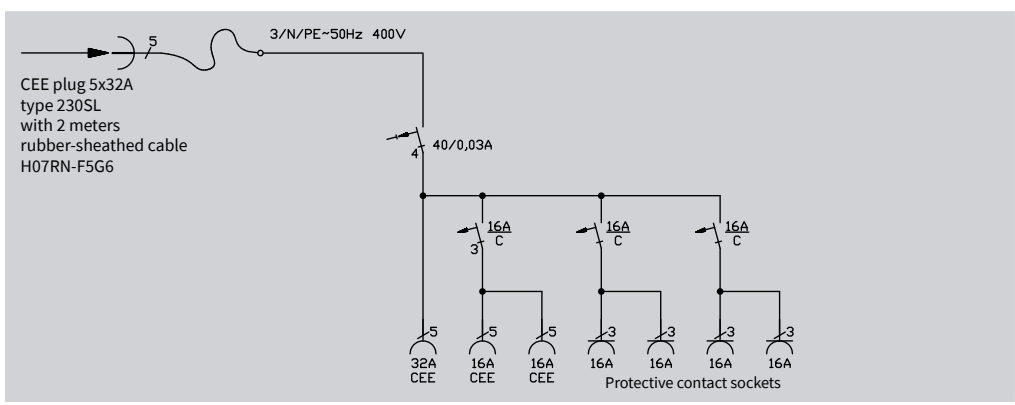
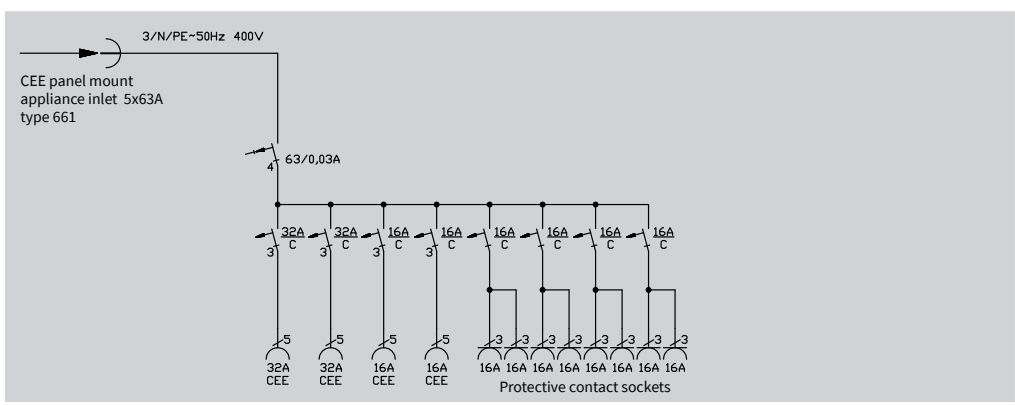
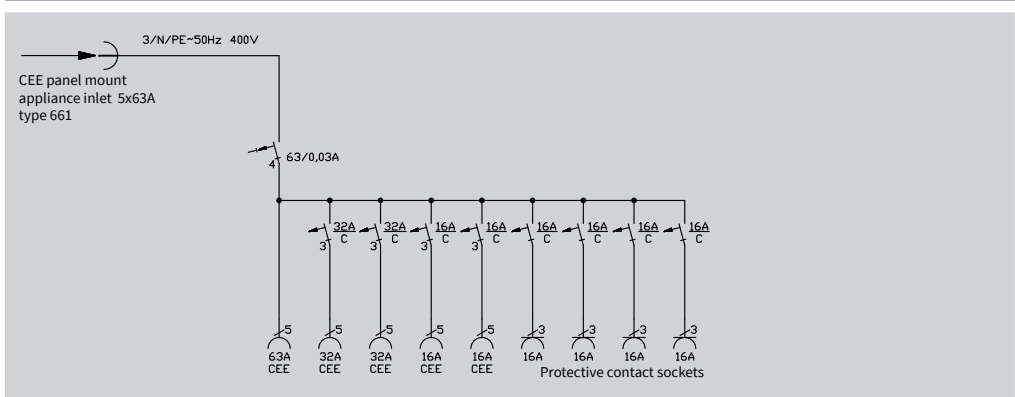
6493025

- 1 CEE panel sockets 5 x 32A, type 430
- 1 CEE panel sockets 5 x 16A, type 410
- 3 Protective contact sockets acc. to DIN/VDE 0620-1
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 3 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 1 CEE panel mount appliance inlet 5 x 16A, type 611
- Overall protection degree IP44



Stock item

Unbreakable enclosure, aging, acid and alkali resistant.
All exterior metal parts made of stainless steel.
Protection class II,
stackable

Wiring diagram 6493026	Outputs	Enclosure
 <p>CEE plug 5x32A type 230SL with 2 meters rubber-sheathed cable H07RN-F5G6</p> <p>40/0,03A</p> <p>32A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 32 A</p> <p>1 x 16 A</p> <p>Prot. contact sockets 3 x 16 A</p>	<p>649: H: 339 mm W: 270 mm D: 280 mm</p> <p>Weight 9,3 kg</p>
Wiring diagram 6493109A	Outputs	Enclosure
 <p>CEE plug 5x32A type 230SL with 2 meters rubber-sheathed cable H07RN-F5G6</p> <p>40/0,03A</p> <p>32A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 32 A</p> <p>2 x 16 A</p> <p>Prot. contact sockets 4 x 16 A</p>	<p>649: H: 339 mm W: 270 mm D: 280 mm</p> <p>Weight 8,7 kg</p>
Wiring diagram 6493318	Outputs	Enclosure
 <p>CEE panel mount appliance inlet 5x63A type 661</p> <p>63/0,03A</p> <p>32A CEE</p> <p>32A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>2 x 32 A</p> <p>2 x 16 A</p> <p>Prot. contact sockets 8 x 16 A</p>	<p>649/2: H: 482 mm W: 270 mm D: 280 mm</p> <p>Weight 13,8 kg</p>
Wiring diagram 6495410	Outputs	Enclosure
 <p>CEE panel mount appliance inlet 5x63A type 661</p> <p>63/0,03A</p> <p>32A CEE</p> <p>32A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>16A CEE</p> <p>Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 63 A</p> <p>2 x 32 A</p> <p>2 x 16 A</p> <p>Prot. contact sockets 4 x 16 A</p>	<p>649/2: H: 482 mm W: 270 mm D: 280 mm</p> <p>Weight 14,3 kg</p>

6493026

- 1 CEE panel sockets 5 x 32A, type 430
- 1 CEE panel sockets 5 x 16A, type 410
- 3 Protective contact sockets, acc. to DIN/VDE 0620-1
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 3 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0.03A
- 2 m connection line H07RN-F5G6
with CEE plug 5 x 32A, type 230SL
- Overall protection degree IP44



6493109A

- 1 CEE panel sockets 5 x 32A, type 430
- 2 CEE panel sockets 5 x 16A, type 410
- 4 Protective contact sockets, acc. to DIN/VDE 0620-1
- 1 Miniature circuit breaker (MCB) 3-pole 16A C
- 2 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 40/0,03A
- 2 m connection line H07RN-F5G6
with CEE plug 5 x 32A, type 230SL
- Overall protection degree IP44



6493318

- 2 CEE panel sockets 5 x 32A, type 430
- 2 CEE panel sockets 5 x 16A, type 410
- 8 Protective contact sockets, acc. to DIN/VDE 0620-1
- 2 Miniature circuit breaker (MCB) 3-pole 32A C
- 2 Miniature circuit breaker (MCB) 3-pole 16A C
- 4 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 63/0,03A
- 1 CEE panel mount appliance inlet 5 x 63A, type 661
- Overall protection degree IP44



6495410

- 1 CEE panel sockets 5 x 63A, type 460
- 2 CEE panel sockets 5 x 32A, type 430
- 2 CEE panel sockets 5 x 16A, type 410
- 4 Protective contact sockets, acc. to DIN/VDE 0620-1
- 2 Miniature circuit breaker (MCB) 3-pole 32A C
- 2 Miniature circuit breaker (MCB) 3-pole 16A C
- 4 Miniature circuit breaker (MCB) 1-pole 16A C
- 1 Residual current device (RCD) 4-pole 63/0,03A
- 1 CEE panel mount appliance inlet 5 x 63A, type 661
- Overall protection degree, IP44



Enclosures PC/ABS silicone and halogen-free
Protection class II
Flammability class V0

Wiring diagram 6510001	Outputs	Enclosure
<p>3/N/PE-50Hz 400V up to 6* 40/0,03A 16A 16A 16A 16A Protective contact sockets</p>	<p>Prot. contact sockets 4 x 16 A</p>	<p>651: H: 110 mm W: 446 mm D: 115 mm</p> <p>Weight 1,7 kg</p>
Wiring diagram 6510101	Outputs	Enclosure
<p>3/N/PE-50Hz 400V up to 6* 40/0,03A 16A CEE 16A 16A 16A Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V 1 x 16 A</p> <p>Prot. contact sockets 3 x 16 A</p>	<p>651: H: 110 mm W: 446 mm D: 115 mm</p> <p>Weight 1,9 kg</p>
Wiring diagram 6400004A	Outputs	Enclosure
<p>1/N/PE-50Hz 230V Protective contact plug solid rubber with 2 meters rubber-sheathed cable H07RN-F3G2,5 25/0,03A 16A 16A 16A Protective contact sockets</p>	<p>Prot. contact sockets 3 x 16 A</p>	<p>640: H: 70 mm W: 347 mm D: 82 mm</p> <p>Weight 1,9 kg</p>
Wiring diagram 6410101A	Outputs	Enclosure
<p>3/N/PE-50Hz 400V CEE plug 5x16A type 210SL with 2 meters rubber-sheathed cable H07RN-F5G2,5 16A CEE 16A 16A 16A 16A Protective contact sockets</p>	<p>CEE panel sockets 5-pole 400 V 1 x 16 A</p> <p>Prot. contact sockets 4 x 16 A</p>	<p>641: H: 90 mm W: 463 mm D: 150 mm</p> <p>Weight 4,0 kg</p>

6510001

- 4 Protective contact sockets, type 10003AA
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 6 mm² 5-pole
Overall protection degree IP44



6510101

- 1 CEE panel sockets 5 x 16A, type 410
- 3 Protective contact sockets, type 10003AA
- 1 Residual current device (RCD) 4-pole 40/0,03A
Connection up to 6 mm² 5-pole
Overall protection degree IP44



6400004A

- 3 Protective contact sockets, acc. to DIN/VDE 0620-1
- 1 Residual current device (RCD) 2-pole 25/0,03A
- 2 m connection line H07RN-F3G2,5
with solid rubber protective contact plug
Overall protection degree IP44



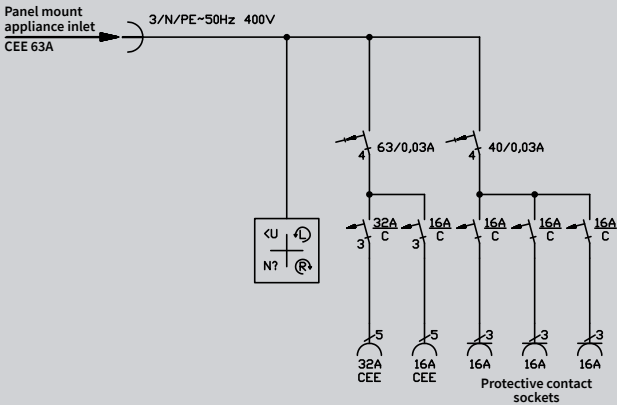
6410101A

- 1 CEE panel sockets 5 x 16A, type 410
- 4 Protective contact sockets, acc. to DIN/VDE 0620-1
- 2 m connection line H07RN-F5G2,5
CEE plug 5 x 16A, type 210SL
Overall protection degree IP44



2 integrated carrying handles,
shock and impact resistant

Wiring diagram 6313001



Outputs

CEE panel sockets
5-pole 400 V

1 x 32 A

1 x 16 A

Prot. contact sockets

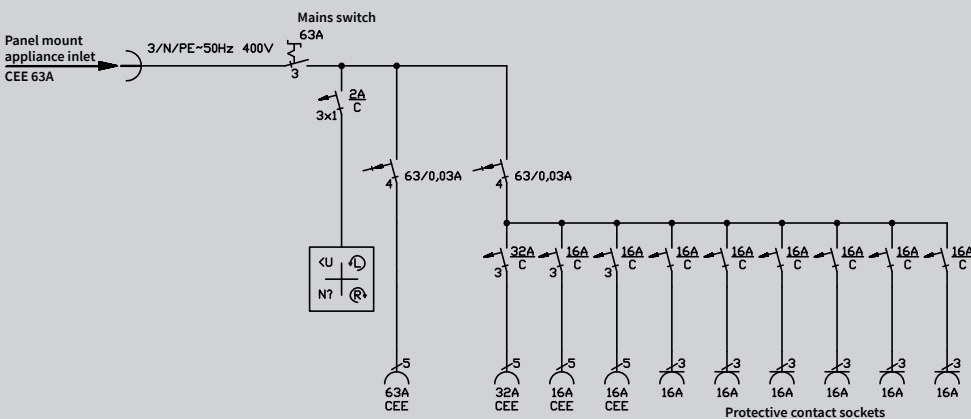
3 x 16 A

Enclosure

631:
H: 340 mm
W: 399 mm
D: 348 mm

Weight
11,9 kg

Wiring diagram 6324501



Outputs

CEE panel sockets
5-pole 400 V

1 x 63 A

1 x 32 A

2 x 16 A

Prot. contact sockets

6 x 16 A

Enclosure

632:
H: 340 mm
W: 560 mm
D: 350 mm

Weight
18,7 kg

6313001

- 1 CEE panel sockets 5 x 32A, type 430
 - 1 CEE panel sockets 5 x 16A, type 410
 - 1 Miniature circuit breaker (MCB) 3-pole 32A C
 - 1 Miniature circuit breaker (MCB) 3-pole 16A C
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 3 Protective contact sockets, type 10003AA
 - 3 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 40/0,03A
 - 1 Phase and sequence indication
 - 1 Panel mount appliance inlet 5 x 63A, type 665
- Overall protection degree IP44



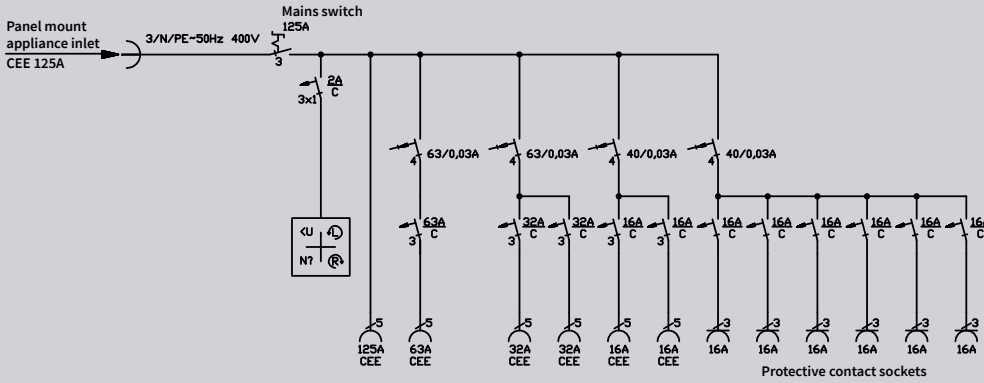
6324501

- 1 CEE panel sockets 5 x 63A, type 460
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 1 CEE panel sockets 5 x 32A, type 430
 - 2 CEE panel sockets 5 x 16A, type 410
 - 6 Protective contact sockets, type 10003AA
 - 1 Miniature circuit breaker (MCB) 3-pole 32A C
 - 2 Miniature circuit breaker (MCB) 3-pole 16A C
 - 6 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 1 Phase and sequence indication
 - 3 Miniature circuit breaker (MCB) 1-pole, 2A C
 - 1 Main switch 3-pole 63A
 - 1 Panel mount appliance inlet 5 x 63A, type 665
- Overall protection degree IP44



2 integrated carrying handles,
shock and impact resistant

Wiring diagram 6339101



Outputs

CEE panel sockets
5-pole 400 V

1 x 125 A

1 x 63 A

2 x 32 A

2 x 16 A

Prot. contact sockets

6 x 16 A

Enclosure

633:

H: 545 mm

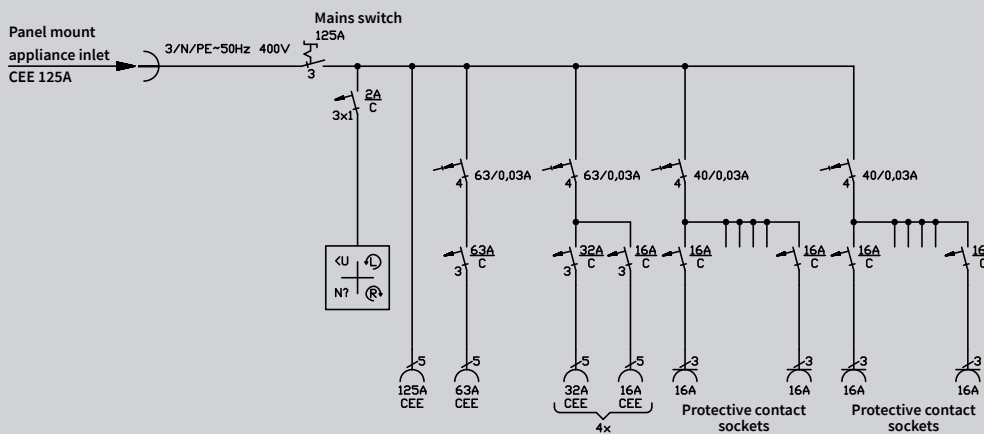
W: 600 mm

D: 400 mm

Weight

32,4 kg

Wiring diagram 6349101



Outputs

CEE panel sockets
5-pole 400 V

1 x 125 A

1 x 63 A

4 x 32 A

4 x 16 A

Prot. contact sockets

12 x 16 A

Enclosure

634:

H: 670 mm

W: 600 mm

D: 400 mm

Weight

43,2 kg

6339101

- 1 CEE panel sockets 5 x 125A, type 479
 - 1 CEE panel sockets 5 x 63A, type 460
 - 1 Miniature circuit breaker (MCB) 3-pole 63A C
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 2 CEE panel sockets 5 x 32A, type 430
 - 2 Miniature circuit breaker (MCB) 3-pole 32A C
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 2 CEE panel sockets 5 x 16A, type 410
 - 2 Miniature circuit breaker (MCB) 3-pole 16A C
 - 1 Residual current device (RCD) 4-pole 40/0,03A
 - 6 Protective contact sockets, type 10003AA
 - 6 Miniature circuit breaker (MCB) 1-pole 16A C
 - 1 Residual current device (RCD) 4-pole 40/0,03A
 - 1 Phase and sequence indication
 - 3 Miniature circuit breaker (MCB) 1-pole 2A C
 - 1 Main switch 3-pole 125A
 - 1 Panel mount appliance inlet 5 x 125A, type 679
- Overall protection degree IP44



6349101

- 1 CEE panel sockets 5 x 125A, type 479
 - 1 CEE panel sockets 5 x 63A, type 460
 - 1 Miniature circuit breaker (MCB) 3-pole 63A C
 - 1 Residual current device (RCD) 4-pole 63/0,03A
 - 4 CEE panel sockets 5 x 32A type 430
 - 4 CEE panel sockets 5 x 16A type 410
 - 4 Miniature circuit breaker (MCB) 3-pole 32A C
 - 4 Miniature circuit breaker (MCB) 3-pole 16A C
 - 4 Residual current device (RCD) 4-pole 63/0,03A
 - 12 Protective contact sockets type 10003AA
 - 12 Miniature circuit breaker (MCB) 1-pole 16A C
 - 2 Residual current device (RCD) 4-pole 40/0,03A
 - 1 Phase and sequence indication
 - 3 Miniature circuit breaker (MCB) 1-pole 2A C
 - 1 Main switch 3-pole 125A
 - 1 Panel mount appliance inlet 5 x 125A, type 679
- Overall protection degree IP44



Enclosures PC/ABS silicone and halogen-free
Protection class II
Flammability class V0

Wiring diagram 68829AI	Outputs	Enclosure
	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 16 A</p>	<p>688: H: 250 mm W: 290 mm D: 172 mm</p> <p>Weight 2,7 kg</p>
Wiring diagram 68829AU	Outputs	Enclosure
	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 32 A</p>	<p>688: H: 250 mm W: 290 mm D: 172 mm</p> <p>Weight 2,9 kg</p>
Wiring diagram 68829AB	Outputs	Enclosure
	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 63 A</p>	<p>688: H: 250 mm W: 290 mm D: 172 mm</p> <p>Weight 3,3 kg</p>
Wiring diagram 62028AL	Outputs	Enclosure
	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 125 A</p>	<p>620: H: 450 mm W: 300 mm D: 205 mm</p> <p>Weight 6,2 kg</p>

68829AI

- 1 Panel mount appliance inlet 5 x 16A, type 611
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Connections up to 16 mm² 5-pole
- Overall protection degree IP44



68829AU

- 1 Panel mount appliance inlet 5 x 32A, type 631
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Connections up to 16 mm² 5-pole
- Overall protection degree IP44



68829AB

- 1 Panel mount appliance inlet 5 x 63A, type 661
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Connections up to 16 mm² 5-pole
- Overall protection degree IP44



62028AL

- 1 Panel mount appliance inlet 5 x 125A, type 679
 - 1 Mains changeover switch 4-pole 125A, with marking mains-0-emergency
 - 2 Connections up to 50 mm² 5-pole
- Overall protection degree IP44



Stainless steel 1.4301,
blank brushed
lockable with profile half cylinder

Wiring diagram 8AP48016	Outputs	Enclosure
<p>Panel mount appliance inlet CEE 16A</p> <p>Emergency</p> <p>supply line terminal 25°</p> <p>Mains</p> <p>terminal 25°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 16 A</p>	<p>H: 765 mm W: 480 mm D: 300 mm</p> <p>Bottom cable entry: 2 x M40</p> <p>Weight 20,2 kg</p>
Wiring diagram 8AP48032	Outputs	Enclosure
<p>Panel mount appliance inlet CEE 32A</p> <p>Emergency</p> <p>supply line terminal 25°</p> <p>Mains</p> <p>terminal 25°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 32 A</p>	<p>H: 765 mm W: 480 mm D: 300 mm</p> <p>Bottom cable entry: 2 x M40</p> <p>Weight 20,6 kg</p>
Wiring diagram 8AP48063	Outputs	Enclosure
<p>Panel mount appliance inlet CEE 63A</p> <p>Emergency</p> <p>supply line terminal 25°</p> <p>Mains</p> <p>terminal 25°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 63 A</p>	<p>H: 985 mm W: 480 mm D: 360 mm</p> <p>Bottom cable entry: 2 x M50</p> <p>Weight 24,0 kg</p>
Wiring diagram 8AP48125	Outputs	Enclosure
<p>Panel mount appliance inlet CEE 125A</p> <p>Emergency</p> <p>supply line terminal 50°</p> <p>Mains</p> <p>terminal 50°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 125 A</p>	<p>H: 985 mm W: 480 mm D: 360 mm</p> <p>Bottom cable entry: 2 x M63</p> <p>Weight 26,2 kg</p>

8AP48016

- 1 Panel mount appliance inlet 5 x 16A, type 611
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Terminal block sets, 16 mm² 5-pole
- Overall protection degree IP44



8AP48032

- 1 Panel mount appliance inlet 5 x 32A, type 631
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Terminal block sets, 25 mm² 5-pole
- Overall protection degree IP44



8AP48063

- 1 Panel mount appliance inlet 5 x 63A, type 661
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Terminal block sets, 25 mm² 5-pole
- Overall protection degree IP44

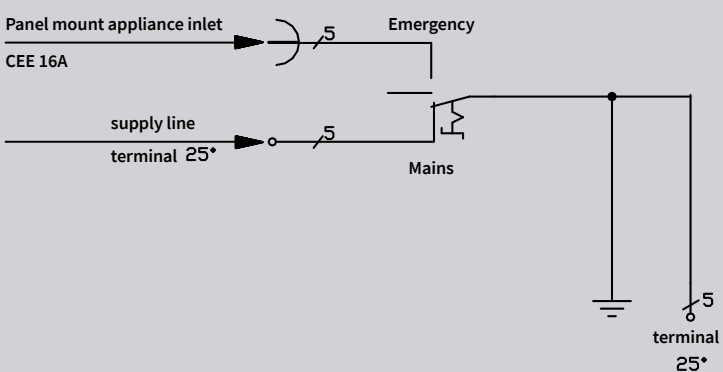
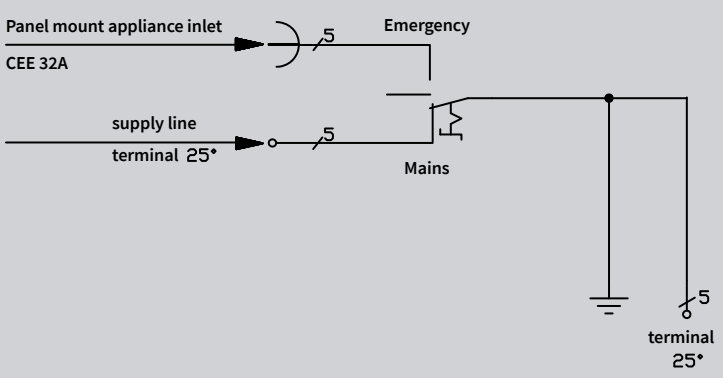
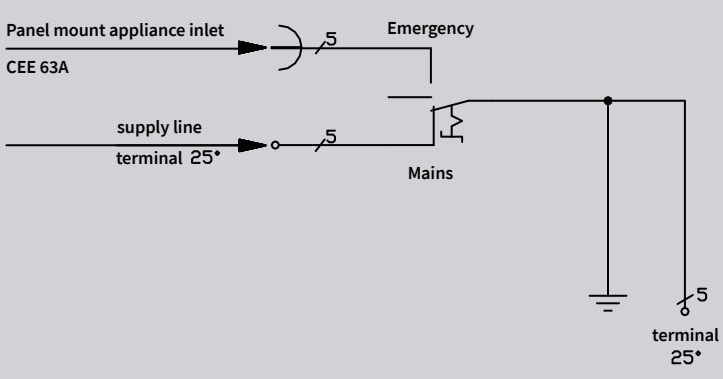
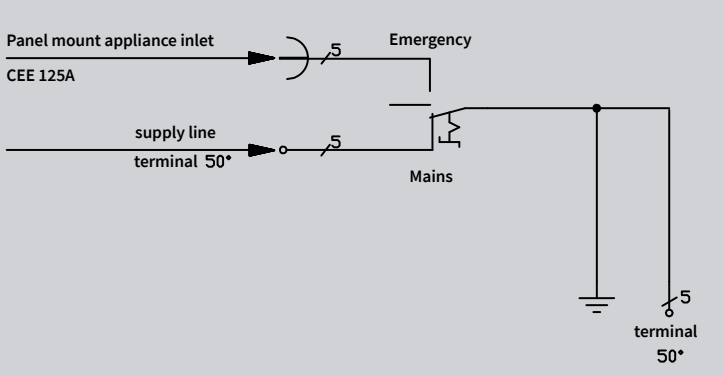


8AP48125

- 1 Panel mount appliance inlet 5 x 125A, type 679
 - 1 Mains changeover switch 4-pole 125A, with marking mains-0-emergency
 - 2 Terminal block sets, 50 mm² 5-pole
- Overall protection degree IP44



Stainless steel 1.4301,
blank brushed
lockable with profile half cylinder

Wiring diagram 6UP42016	Outputs	Enclosures
 <p>Panel mount appliance inlet CEE 16A</p> <p>Emergency</p> <p>supply line terminal 25°</p> <p>Mains</p> <p>terminal 25°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 16 A</p>	<p>H: 590 mm W: 320 mm D: 200 mm</p> <p>Top + bottom cable entry 2 x M40/50</p> <p>Weight 21,8 kg</p>
Wiring diagram 6UP42032	Outputs	Enclosures
 <p>Panel mount appliance inlet CEE 32A</p> <p>Emergency</p> <p>supply line terminal 25°</p> <p>Mains</p> <p>terminal 25°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 32 A</p>	<p>H: 590 mm W: 320 mm D: 200 mm</p> <p>Top + bottom cable entry 2 x M40/50</p> <p>Weight 22,7 kg</p>
Wiring diagram 6UP42063	Outputs	Enclosures
 <p>Panel mount appliance inlet CEE 63A</p> <p>Emergency</p> <p>supply line terminal 25°</p> <p>Mains</p> <p>terminal 25°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 63 A</p>	<p>H: 750 mm W: 420 mm D: 275 mm</p> <p>Top + bottom cable entry 2 x M40/50</p> <p>Weight 36,6 kg</p>
Wiring diagram 6UP50125	Outputs	Enclosures
 <p>Panel mount appliance inlet CEE 125A</p> <p>Emergency</p> <p>supply line terminal 50°</p> <p>Mains</p> <p>terminal 50°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 125 A</p>	<p>H: 750 mm W: 500 mm D: 330 mm</p> <p>Top + bottom cable entry 2 x M40/50</p> <p>Weight 45,1 kg</p>

6UP42016

- 1 Panel mount appliance inlet 5 x 16A, type 611
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Terminal block sets 25 mm² 5-pole
- Overall protection degree IP44



6UP42032

- 1 Panel mount appliance inlet 5 x 32A, type 631
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Terminal block sets, up to 25 mm² 5-pole
- Overall protection degree IP44



6UP42063

- 1 Panel mount appliance inlet 5 x 63A, type 661
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Terminal block sets up to 25 mm² 5-pole
- Overall protection degree IP44



6UP50125

- 1 Panel mount appliance inlet 5 x 125A, type 679
 - 1 Mains changeover switch 4-pole 125A, with marking mains-0-emergency
 - 2 Terminal block sets, 50 mm² 5-pole
- Overall protection degree, IP44



Stainless steel 1.4301,
blank brushed,
lockable with profile half-cylinder

Wiring diagram 83245116	Outputs	Enclosure
<p>Panel mount appliance inlet CEE 16A</p> <p>Emergency</p> <p>supply line terminal 25°</p> <p>Mains</p> <p>terminal 25°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 16 A</p>	<p>H: 1200 mm W: 465 mm D: 360 mm</p> <p>Bottom cable entry: 2 x M40/50</p> <p>Weight 40,6 kg</p>
Wiring diagram 83245132	Outputs	Enclosure
<p>Panel mount appliance inlet CEE 32A</p> <p>Emergency</p> <p>supply line terminal 25°</p> <p>Mains</p> <p>terminal 25°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 32 A</p>	<p>H: 1200 mm W: 465 mm D: 360 mm</p> <p>Bottom cable entry: 2 x M40</p> <p>Weight 40,7 kg</p>
Wiring diagram 83245163	Outputs	Enclosure
<p>Panel mount appliance inlet CEE 63A</p> <p>Emergency</p> <p>supply line terminal 25°</p> <p>Mains</p> <p>terminal 25°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 63 A</p>	<p>H: 1200 mm W: 465 mm D: 360 mm</p> <p>Bottom cable entry: 2 x M50</p> <p>Weight 46,6 kg</p>
Wiring diagram 83245125	Outputs	Enclosure
<p>Panel mount appliance inlet CEE 125A</p> <p>Emergency</p> <p>supply line terminal 50°</p> <p>Mains</p> <p>terminal 50°</p>	<p>CEE panel mount appliance inlet 5-pole 400 V</p> <p>1 x 125 A</p>	<p>H: 1200 mm W: 465 mm D: 360 mm</p> <p>Bottom cable entry: 2 x M63</p> <p>Weight 48,2 kg</p>

83245116

- 1 Panel mount appliance inlet 5 x 16A, type 611
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Terminal block sets 16 mm² 5-pole
- Overall protection degree IP44



83245132

- 1 Panel mount appliance inlet 5 x 32A, type 631
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Terminal block sets, 25 mm² 5-pole
- Overall protection degree IP44



83245163

- 1 Panel mount appliance inlet 5 x 63A, type 661
 - 1 Mains changeover switch 4-pole 63A, with marking mains-0-emergency
 - 2 Terminal block sets, 25 mm² 5-pole
- Overall protection degree, IP44



83245125

- 1 Panel mount appliance inlet 5 x 125A, type 679
 - 1 Mains changeover switch 4-pole 125A, with marking mains-0-emergency
 - 2 Terminal block sets, 50 mm² 5-pole
- Overall protection degree IP44



Unbreakable enclosure, aging, acid and alkali resistant.
All exterior metal parts made of stainless steel

Wiring diagram 6420104	Outputs	Enclosure
<p>3/N/PE-50Hz 400V</p> <p>CEE panel mount appliance inlet 5x16A type 615</p> <p>40/0,03A Typ B SK MI</p> <p>16A CEE</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 16 A</p>	<p>642: H: 120 mm W: 290 mm D: 147 mm</p> <p>Weight 7,2 kg</p>
Wiring diagram 6421102	Outputs	Enclosure
<p>3/N/PE-50Hz 400V</p> <p>CEE panel mount appliance inlet 5x32A type 635</p> <p>40/0,03A Typ B SK MI</p> <p>32A CEE</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 32 A</p>	<p>642: H: 120 mm W: 290 mm D: 147 mm</p> <p>Weight 7,4 kg</p>
Wiring diagram 6422102	Outputs	Enclosure
<p>3/N/PE-50Hz 400V</p> <p>CEE panel mount appliance inlet 5x63A</p> <p>63/0,03A Typ B SK MI</p> <p>63A CEE</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 63 A</p>	<p>642: H: 120 mm W: 290 mm D: 147 mm</p> <p>Weight 7,8 kg</p>
Wiring diagram 64930DZ	Outputs	Enclosure
<p>3/N/PE-50Hz 400V</p> <p>CEE plug 5x32A type 238SL with 2 meters rubber-sheathed cable H07RN-F5G6</p> <p>40/0,03A Typ B SK MI</p> <p>16A C</p> <p>32A CEE</p> <p>16A CEE</p>	<p>CEE panel sockets 5-pole 400 V</p> <p>1 x 32 A</p> <p>1 x 16 A</p>	<p>649: H: 339 mm W: 270 mm D: 280 mm</p> <p>Weight 9,3 kg</p>

6420104

- 1 CEE panel appliance inlet 5 x 16A, type 615
- 1 CEE panel sockets 5 x 16A, type 410
- 1 Residual current device (RCD) 4-pole 40/0,03A
AC/DC sensitive, type B SK MI
Overall protection degree IP44
Rated current: 16A
RDF=1,0



6421102

- 1 CEE panel appliance inlet 5 x 32A, type 635
- 1 CEE panel sockets 5 x 32A, type 430
- 1 Residual current device (RCD) 4-pole 40/0,03A
AC/DC sensitive, type B SK MI
Overall protection degree IP44



6422102

- 1 CEE panel appliance inlet 5 x 63A
- 1 CEE panel sockets 5 x 63A, type 460
- 1 Residual current device (RCD) 4-pole 63/0,03A
AC/DC sensitive, type B SK MI
Overall protection degree IP44



64930DZ

- 1 CEE panel sockets 5 x 32A, type 430
- 1 CEE panel sockets 5 x 16A, type 410
- 1 Miniature circuit breaker (MCB), 3-pole 16A C
- 1 Changeover switch 3-pole 32A (32A/16A)
- 1 Residual current device (RCD), 4-pole 40/0,03A
AC/DC sensitive, type B SK MI
- 2 m connection cable H07RN-F5G6
with CEE plug 5 x 32A, type 230SL
Overall protection degree IP44







Systems below 50 V are safety extra-low voltage systems and do not require an earth contact.

To distinguish between different voltages and frequencies there is a major keyway in the socket at 6 hour position. The different widths of the keyways are:

- 4 mm for 32/30 A plugs
- 7 mm for 16/20 A plugs

These different keyway widths prevent the insertion of 32/30 A plugs into 16/20 A sockets.

It is possible and in accordance with the standard to insert 32/30A plugs into 16/20 A sockets if voltage and frequency are identical.

It is also possible to insert a 2-pole plug into a 3-pole socket if voltage and frequency are

identical.

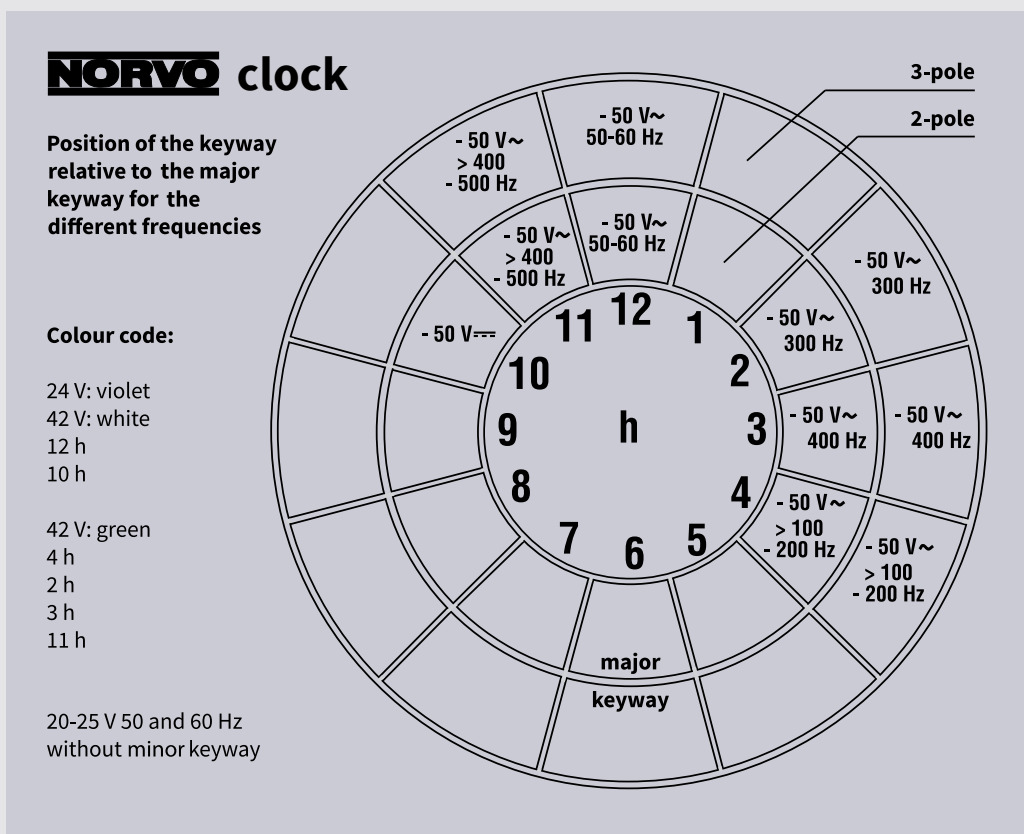
By means of the keyway in the socket (which identifies the hour position) respectively by means of the guide groove inside the plug, the frequencies can be distinguished.

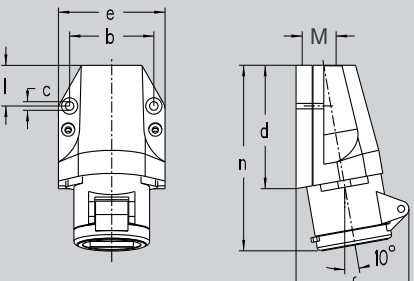
Due to constructional reasons the hour positions 5, 6 and 7 can not be used. The hour posi-

tions 1, 8 and 9 are reserved for future standardisations.

Application areas of extra-low voltage systems are for example:

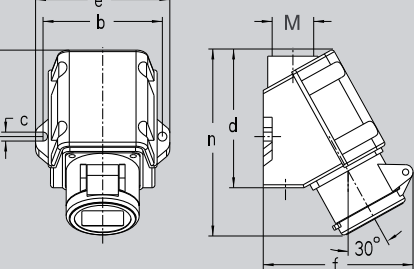
- boiler companies
- pipeline construction
- generating stations
- mobile lighting systems
- tank cleaning systems





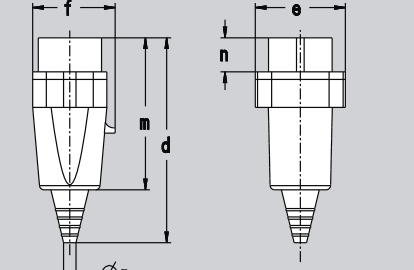
Amp.	16		32	
Poles	2	3	2	3
b	54,5	54,5	54,5	54,5
c	5,2	5,2	5,2	5,2
d	81	81	81	81
e	70	70	70	70
f	72	72	72	72
l	28	28	28	28
n	119	119	119	119
M	25	25	25	25

NORVO wall sockets,
external fixing,
1 top cable entry,
IP 44 ▲



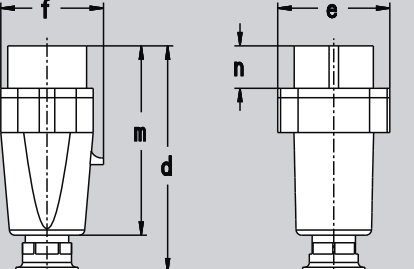
Amp.	16		32	
Poles	2	3	2	3
b	80	80	80	80
c	6,2	6,2	6,2	6,2
d	93	93	93	93
e	90	90	90	90
f	93	93	93	93
l	60	60	60	60
n	125	125	125	125

NORVO wall sockets,
external fixing,
top cable entry 1 x PG 21,
bottom cable entry 2 x PG 16,
IP 44 ▲



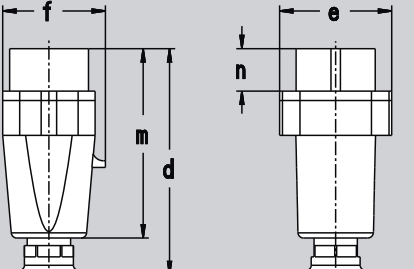
Amp.	16		32	
Poles	2	3	2	3
d	135	135	135	135
e	59	59	59	59
f	55	55	55	55
m	99	99	99	99
n	22,5	22,5	22,5	22,5
Øp	8/21	8/21	8/21	8/21

NORVO plugs,
with flexible cable entry,
IP 44 ▲



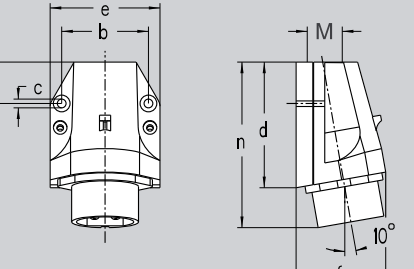
Amp.	16		32	
Poles	2	3	2	3
d	128	128	128	128
e	59	59	59	59
f	55	55	55	55
m	99	99	99	99
n	22,5	22,5	22,5	22,5
Øp	7,5-14,5	7,5-14,5	7,5-14,5	7,5-14,5

NORVO plugs,
with trumpet gland, PG 16
IP 44 ▲



Amp.	16		32	
Poles	2	3	2	3
d	128	128	128	128
e	59	59	59	59
f	55	55	55	55
m	99	99	99	99
n	22,5	22,5	22,5	22,5
Øp	7,5-19,5	7,5-19,5	7,5-19,5	7,5-19,5

NORVO plugs,
with trumpet gland, PG 21
IP 44 ▲



Amp.	16		32	
Poles	2	3	2	3
b	54,5	54,5	54,5	54,5
c	5,2	5,2	5,2	5,2
d	81	81	81	81
e	70	70	70	70
f	68	68	68	68
l	28	28	28	28
n	105	105	105	105
M	28		28	

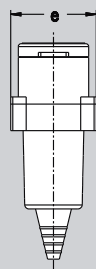
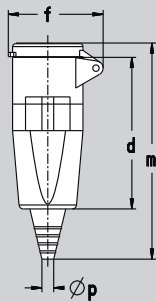
NORVO wall mount appliance inlets,
external fixing,
1 top cable entry,
IP 44 ▲

Low Voltage Plugs & Sockets NORVO

Ampère	Poles	24~ V 50/60 Hz		42~V 50/60 Hz		42~V 100/200 Hz		42~V 300 Hz		42~V 400 Hz		42~V >400/500Hz		42... V —					
		2-pole	3-pole	2-pole	3-pole	2-pole	3-pole	2-pole	3-pole	2-pole	3-pole	2-pole	3-pole	2-pole	3-pole				
Part numbers																			
16	2	10 110	10 111	10 112	10 113	10 114	10 115	10 116	10										
16	3	10 150	10 151	10 152	10 153	10 154	10 155	10 116	10										
32	2	11 110	11 111	11 112	11 113	11 114	11 115	11 116	10										
32	3	11 150	11 151	11 152	11 153	11 154	11 155	11 116	10										
16	2	10 100	10 101	10 102	10 103	10 104	10 105	10 106	10										
16	3	10 140	10 141	10 142	10 143	10 144	10 145	10 106	10										
32	2	11 100	11 101	11 102	11 103	11 104	11 105	11 106	10										
32	3	11 140	11 141	11 142	11 143	11 144	11 145	11 106	10										
16	2	10 280	10 281	10 282	10 283	10 284	10 285	10 286	10										
16	3	10 290	10 291	10 292	10 293	10 294	10 295	10 286	10										
32	2	11 280	11 281	11 282	11 283	11 284	11 285	11 286	10										
32	3	11 290	11 291	11 292	11 293	11 294	11 295	11 286	10										
16	2	10 210	10 211	10 212	10 213	10 214	10 215	10 216	10										
16	3	10 250	10 251	10 252	10 253	10 254	10 255	10 216	10										
32	2	11 210	11 211	11 212	11 213	11 214	11 215	11 216	10										
32	3	11 250	11 251	11 252	11 253	11 254	11 255	11 216	10										
16	2	10 220	10 221	10 222	10 223	10 224	10 225	10 226	10										
16	3	10 260	10 261	10 262	10 263	10 264	10 265	10 226	10										
32	2	11 220	11 221	11 222	11 223	11 224	11 225	11 226	10										
32	3	11 260	11 261	11 262	11 263	11 264	11 265	11 226	10										
16	2	10 800	10 801	10 802	10 803	10 804	10 805	10 806	10										
16	3	10 840	10 841	10 842	10 843	10 844	10 845	10 806	10										
32	2	11 800	11 801	11 802	11 803	11 804	11 805	11 806	10										
32	3	11 840	11 841	11 842	11 843	11 844	11 845	11 806	10										

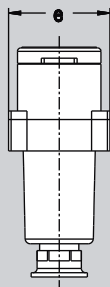
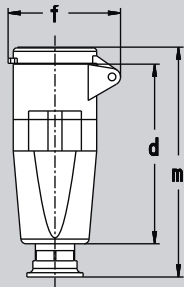
13

Availability of not listed clock positions on request



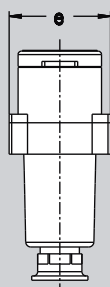
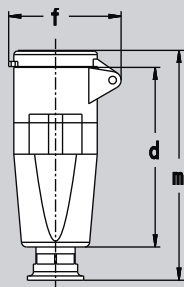
Amp.	16		32	
Poles	2	3	2	3
d	150	150	150	150
e	59	59	59	59
f	67	67	67	67
m	104	104	104	104
Øp	8/21	8/21	8/21	8/21

NORVO couplers,
with flexible cable entry,
IP 44 ▲



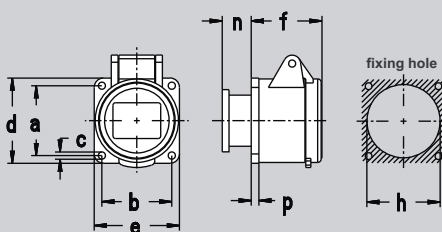
Amp.	16		32	
Poles	2	3	2	3
d	143	143	143	143
e	59	59	59	59
f	67	67	67	67
m	104	104	104	104
Øp	7,5 - 14,5			

NORVO couplers,
with gland, PG 16
IP 44 ▲



Amp.	16		32	
Poles	2	3	2	3
d	143	143	143	143
e	59	59	59	59
f	67	67	67	67
m	104	104	104	104
Øp	10-19,5	10-19,5	10-19,5	10-19,5

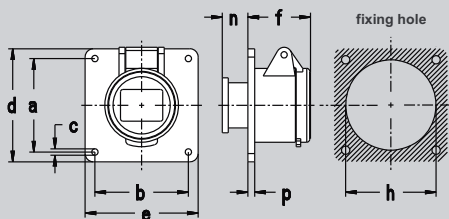
NORVO couplers,
with trumpet gland, PG 21
IP 44 ▲



Amp.	16		32	
Poles	2	3	2	3
a	41	41	41	41
b	41	41	41	41
c	4,2	4,2	4,2	4,2
d	50	50	50	50
e	50	50	50	50
f	42	42	42	42
h	40	40	40	40
n	18	18	18	18
p	4	4	4	4

fixing dimensions = a + b, flange dimensions = d + e

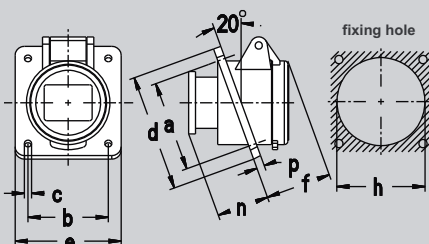
NORVO panel sockets, straight,
flange dimensions 50 x 50 mm,
IP 44 ▲



Amp.	16		32	
Poles	2	3	2	3
a	60	60	60	60
b	60	60	60	60
c	4,2	4,2	4,2	4,2
d	75	75	75	75
e	75	75	75	75
f	42	42	42	42
h	40	40	40	40
n	18	18	18	18
p	4	4	4	4

fixing dimensions = a + b, flange dimensions = d + e

NORVO panel sockets, straight,
flange dimensions 75 x 75 mm,
IP 44 ▲



Amp.	16		32	
Poles	2	3	2	3
a	53	53	53	53
b	47	47	47	47
c	4,5	4,5	4,5	4,5
d	68	68	68	68
e	62	62	62	62
f	38	38	38	38
h	55	55	55	55
n	30	30	30	30
p	4,5	4,5	4,5	4,5

fixing dimensions = a + b, flange dimensions = d + e

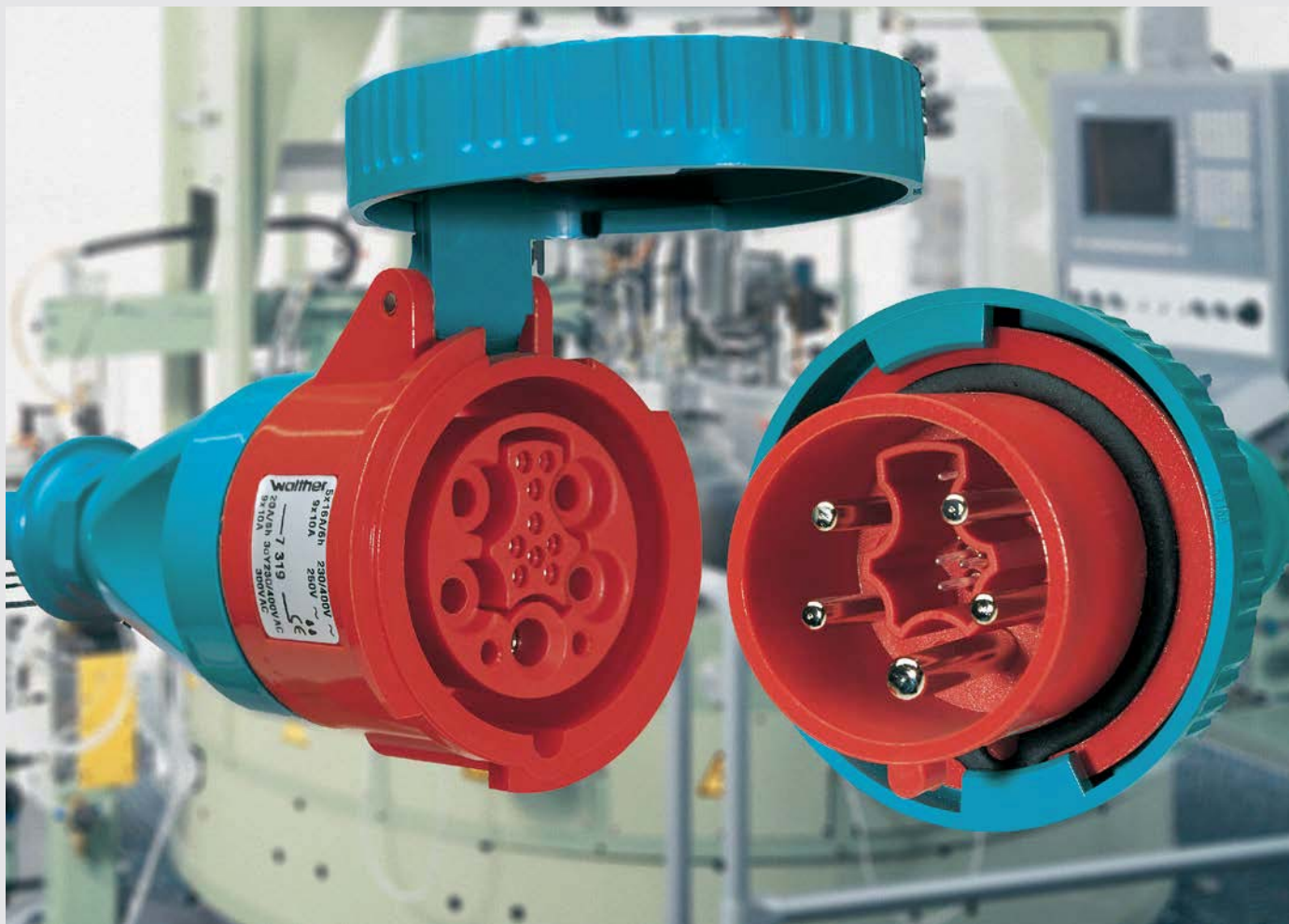
NORVO panel sockets, angled,
flange dimensions 68 x 62,
IP 44 ▲

Low Voltage Plugs & Sockets NORVO

Ampère	Poles	24~V 50/60 Hz		42~V 50/60 Hz		42~V 100/200 Hz		42~V 300 Hz		42~V 400 Hz		42~V >400/500Hz		42...V —					
		2-pole	3-pole	2-pole	3-pole	2-pole	3-pole	2-pole	3-pole	2-pole	3-pole	2-pole	3-pole	2-pole	3-pole				
Part numbers																			
16	2	10 380	10 381	10 382	10 383	10 384	10 385	10 386	10										
16	3	10 390	10 391	10 392	10 393	10 394	10 395	10 386	10										
32	2	11 380	11 381	11 382	11 383	11 384	11 385	11 386	10										
32	3	11 390	11 391	11 392	11 393	11 394	11 395	11 386	10										
16	2	10 310	10 311	10 312	10 313	10 314	10 315	10 316	10										
16	3	10 350	10 351	10 352	10 353	10 354	10 355	10 316	10										
32	2	11 310	11 311	11 312	11 313	11 314	11 315	11 316	10										
32	3	11 350	11 351	11 352	11 353	11 354	11 355	11 316	10										
16	2	10 320	10 321	10 322	10 323	10 324	10 325	10 326	10										
16	3	10 360	10 361	10 362	10 363	10 364	10 365	10 326	10										
32	2	11 320	11 321	11 322	11 323	11 324	11 325	11 326	10										
32	3	11 360	11 361	11 362	11 363	11 364	11 365	11 326	10										
16	2	10 400	10 401	10 402	10 403	10 404	10 405	10 406	10										
16	3	10 440	10 441	10 442	10 443	10 444	10 445	10 406	10										
32	2	11 400	11 401	11 402	11 403	11 404	11 405	11 406	10										
32	3	11 440	11 441	11 442	11 443	11 444	11 445	11 406	10										
16	2	10 600	10 601	10 602	10 603	10 604	10 605	10 606	10										
16	3	10 640	10 641	10 642	10 643	10 644	10 645	10 606	10										
32	2	11 600	11 601	11 602	11 603	11 604	11 605	11 606	10										
32	3	11 640	11 641	11 642	11 643	11 644	11 645	11 606	10										
16	2	10 500	10 501	10 502	10 503	10 504	10 505	10 506	10										
16	3	10 540	10 541	10 542	10 543	10 544	10 545	10 506	10										
32	2	11 500	11 501	11 502	11 503	11 504	11 505	11 506	10										
32	3	11 540	11 541	11 542	11 543	11 544	11 545	11 506	10										

Availability of not listed clock positions on request

CEPro Plugs and Sockets for Power and Control



Power contact section

The circular arrangement of the power contacts of phases, neutral and protective conductor are at a different angle than in CEE devices, so that mutual mating between CEE and CEPro is not possible.

Control contact section

The contacts to be used here are from series D of PROCON industrial connectors.

The protective collar around the control contacts prevents a flashover even in strongly ionized atmosphere.

Termination method inside the control contact section

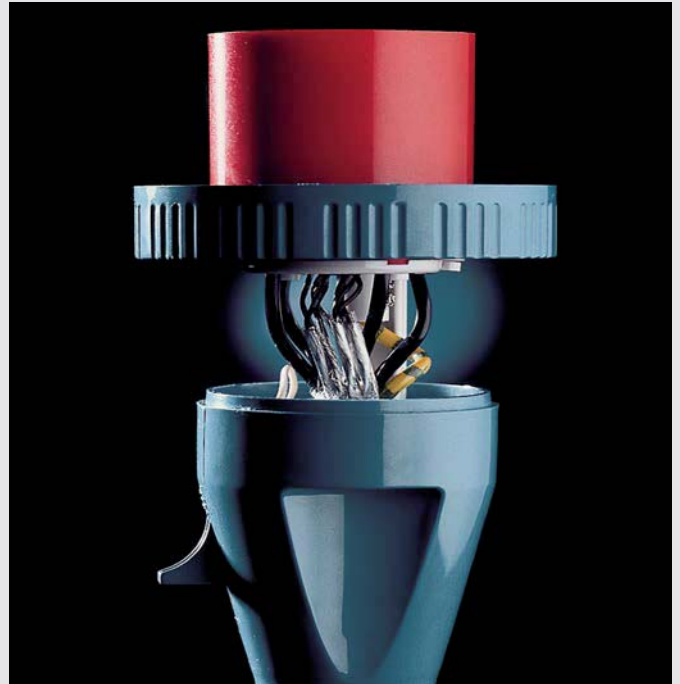
The line connection is made by crimp contact technology to the contact cross sections. Crimping has the advantage of a gas-tight connection with a constant low contact resistance.

Scope of delivery

CEPro devices are provided with screw terminal power contacts. The control contact section comes without pins and sleeves so that it can be equipped by the user himself with the required crimp contacts.

For secure contacting, all devices are supplied with a bayonet lock, with degree of protection IP 67.

CEPro Plugs and Sockets for Power and Control



WALTHER CEPro cable

For CEPro devices, WALTHER also offer hybrid cables for safe transmission of power and control signals.

All cables are made of fine-stranded copper strands. The wires are twisted in pairs and shielded. Thus, an influence by switching pulses from the power range is avoided and a good crosstalk attenuation is achieved.

The cable is suitable for a temperature range of -30 to +80 °C, whereby the bending radius of 7.5 x cable diameter should not be undercut.

The wires inside the lines are tested against each other and the power current section is tested to the control part with 3500 V. The cable jacket is made of polyurethane.

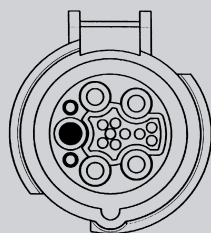
CEPro is the trade name for a plug and socket system that can transmit high electrical power and control signals simultaneously.

A single plug-in system instead of two – a compact solution.

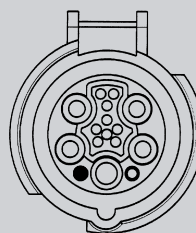
CEPro devices can be plugged and withdrawn under load.

CEPro plugs & sockets in connection with CEPro cable ensure safe power and signal transmission, guaranteeing the requirements of a “safe

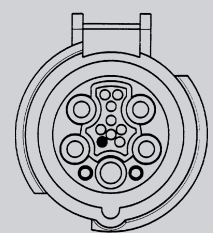
connection” according to VDE 0100 T 410.



• 9 o'clock position



• Key pin



• Dummy sleeve

CEPro Coding

If several CEPro sockets with the same rated data are installed next to each other, then socket and plug must be made unmistakable.

This is done either via a mechanical or electronic coding.

Mechanical Coding

- Use of screwable key pins in connection with blanking plugs
- Selection of different clock positions
- Snapping-in of dummy contact sleeves (control contact sleeves without plug hole) in the control contact section

Electronical Coding

Electrical connections are only established in response to a programmed logic controller (PLC).

Since the complete control contact section is lagging the power contact section when inserting the plug, there is already a large number of different electrical locking options due to the fact that different control contact pairs are occupied.

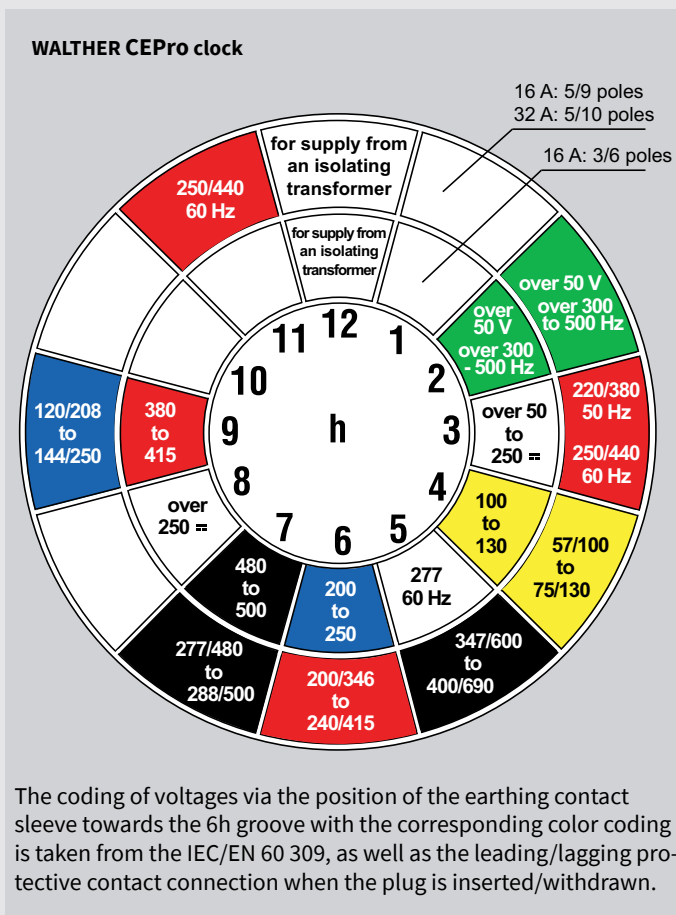
Specifications: Terminal cross sections in the power contact section

Table 107

Nominal cross sections and sizes of connectable cables (excerpt)

Source:
EN 60309-2,1992

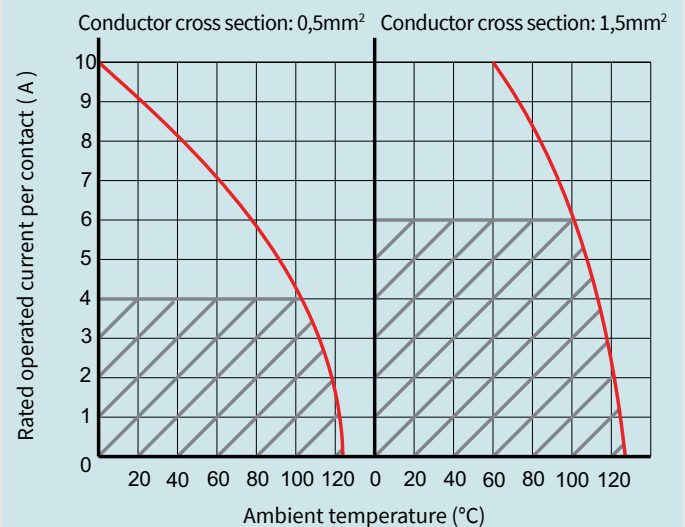
Ratings of the plug and socket device		Internal terminals				External terminals (if available)	
Voltage	Rated current	Flexible cables for plugs and couplers, Single or multi-wire cables for appliance inlets		Single or multi-wire cables for socket outlets			
V	A	mm ²	AWG	mm ²	AWG	mm ²	AWG
over 50	16/20	1 - 2,5	17 - 13	1,5 - 4	16 - 11	6	9
	32/30	2,5 - 6	13 - 9	2,5 - 10	13 - 7	10	7



The coding of voltages via the position of the earthing contact sleeve towards the 6h groove with the corresponding color coding is taken from the IEC/EN 60 309, as well as the leading/lagging protective contact connection when the plug is inserted/withdrawn.

	z	Conductor sizes marked with „z“	
Sleeve and pin contacts crimp type	1	0,14 - 0,37 mm ²	26 - 22 AWG
	2	0,5 mm ²	20 AWG
	3	0,75 - 1 mm ²	19 - 18 AWG
	4	1,5 mm ²	16 AWG
	5	2,5 mm ²	14 AWG
Sleeve and pin contacts fiber optic for plastic fiber		POF Ø 1 mm	

Derating diagram for CEPro control section



//// breaking capacity

Test data

Operating and test data for
CEPro plugs and sockets
with CEPro cable

	2 P + ⊕, 16 A + 6 control contacts		3 P + N + ⊕, 16 A + 9 control contacts		3 P + N + ⊕, 32 A + 10 control contacts	
	Power	Control	Power	Control	Power	Control
Cable: CEPro cable	3 x 2,5 mm ²	+ 3 x (2 x 0,5 mm ²)	5 x 2,5 mm ²	+ 4 x (2 x 0,5 mm ²) + 1 x 0,5 mm ²	5 x 4 mm ²	+ 5 x (2 x 0,5 mm ²)
Conductor resistances R	7,98 Ω / km	39 Ω / km	7,98 Ω / km	39 Ω / km	4,95 Ω / km	39 Ω / km
U _{Rated}	up to 690 V AC	up to 250 V AC	up to 690 V AC	up to 250 V AC	up to 690 V AC	up to 250 V AC
I _{Rated} without breaking capacity	16 A	10 A	16 A	10 A	32 A	10 A
I _{Rated} with breaking capacity	16 A	6 A at 1,5 mm ²	16 A	6 A at 1,5 mm ²	32 A	6 A at 1,5 mm ²
I _{Rated} with breaking capacity	16 A	4 A at 0,5 mm ²	16 A	4 A at 0,5 mm ²	32 A	4 A at 0,5 mm ²
Breaking capacity test ratings						
U _{Test}	750 V AC	250 V AC	750 V AC	250 V AC	750 V AC	250 V AC
I _{Test}	20 A	4 A at 0,5 mm ²	20 A	4 A at 0,5 mm ²	40 A	4 A at 0,5 mm ²
cosφ	0,6	0,9	0,6	0,9	0,6	0,9
Mating cycles	50	50		50		
Matings/min	7,5	7,5		7,5		
Normal use						
Matings		5000 under load		5000 under load		2000 1000 x under load 1000 x without load
I _{Nenn}	16 A	4 A at 0,5 mm ²	16 A	4 A at 0,5 mm ²	32 A	4 A at 0,5 mm ²
High voltage testing						
U _{Test}	3000 V AC	2000 V AC	3000 V AC	2000 V AC	3000 V AC	2000 V AC
Power contact section against control contact section		3500 V AC		3500 V AC		3500 V AC
Crosstalk attenuation between power contact section and control contact section						
100 KHz		82 - 96 dB		82 - 96 dB		82 - 96 dB
500 MHz		15 - 22 dB		15 - 22 dB		15 - 22 dB
Crosstalk attenuation between control contacts (pair to pair)		90 - 96 dB		90 - 96 dB		90 - 96 dB
Signal transmission loss per pair (max.)						
100 KHz		0,001 dB		0,001 dB		0,001 dB
500 MHz		1,000 dB		1,000 dB		1,000 dB
Operating capacity						
wire/wire		120 nF/km		120 nF/km		120 nF/km
wire/screen		160 nF/km		160 nF/km		160 nF/km

Tests:

Power contact sections acc. to IEC / EN 60309-1; 1997, section 20, 21, 22

Control contact sections acc. to IEC / EN 60309-1; 1997, section 20, 21, 22, VDE 0627, Entw. 91

Worth knowing about CEPro with fiber optic connection

Decentralization and automation require pluggable connections. Master-slaves take over peripheral tasks from plant parts which not only have to be provided with power but which also must have a data connection to the control center.

The use of glass fiber cables guarantees the maximum transfer of bulk data quantities.

Therefore many control techniques - like fieldbus systems - are increasingly using optocouplers for glass fiber cable transmission. Fieldbus structures may be divided into

- line wiring
- ring wiring
- star wiring
- tree wiring.

For glass fiber cable applications preferably star wiring is used in order to prevent signal losses..



For optical data transmission in plants, polymer optical fibers (POF) are very suitable.

The attenuation is about 0.3 dB/m at a wave-length of 660 nm.

With a transmission rate of 93.75 K Bit/s up to 1.5 M Bit/s the usual bus requirements are completely covered.

Advantages of POF connections:

- galvanic isolation
- no potential compensating currents
- no crosstalk or adjacent current interference
- high transmission rate and speed
- highest safety in the explosion-proof sector
- no interference through external magnetic fields
- small cable diameter and low weight

Connection with POF cable

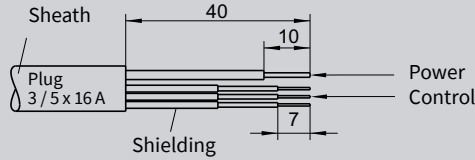
Stripping of copper conductors for CEPro cable without POF:

Plug connection

2 P + ⊕

16 A

3 P + N + ⊕

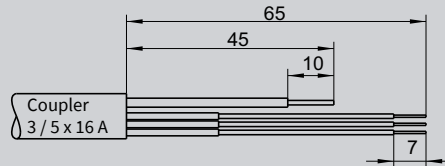


Coupler connection

2 P + ⊕

16 A

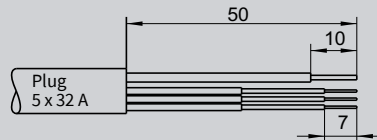
3 P + N + ⊕



Plug connection

3 P + N + ⊕

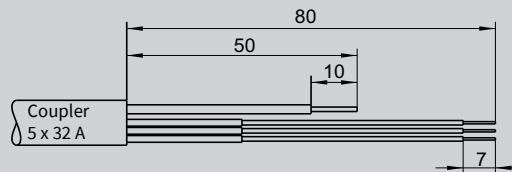
32 A



Coupler connection

3 P + N + ⊕

32 A



Instructions for connection with POF cable (POF = Polymer optical fiber)

- 1) Before crimping the POF-cable (Ø 1 mm) to the glass fiber cable contact, the end of the fiber has to be polished.

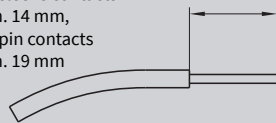
Stick the end of the POF-cable into the polishing tool and grind on a plane surface (e.g. a glass plate).

Wipe off any residues after polishing

The best optical damping values are achieved with the wet-polishing procedure.

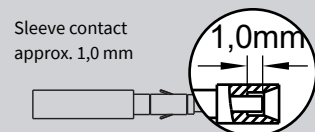
- 2) Strip the POF cable (Ø 1 mm) on min. 14 mm for glass fiber cable sleeve contacts and on min. 19 mm for glass fiber cable pin contacts.

for sleeve contacts
min. 14 mm,
for pin contacts
min. 19 mm

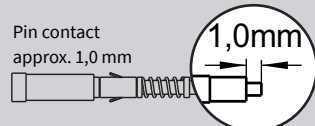


- 3) Insert stripped POF cable into the sleeve or pin contacts as far as it will go. The fiber should then stick about 1 mm out of the contact.

Sleeve contact
approx. 1,0 mm



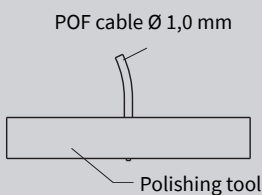
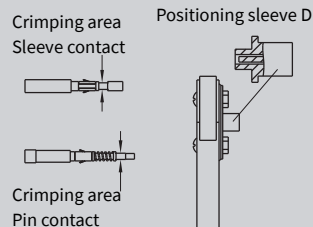
Pin contact
approx. 1,0 mm

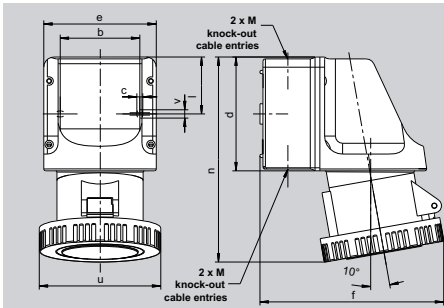


- 4) Fibre crimping:

Adjust the positioning sleeve into the corresponding inlet of the crimping tool with the stop screw at 1,45 mm (if necessary check with gauge pin, Ø 1,45 mm, with closed crimping tool).

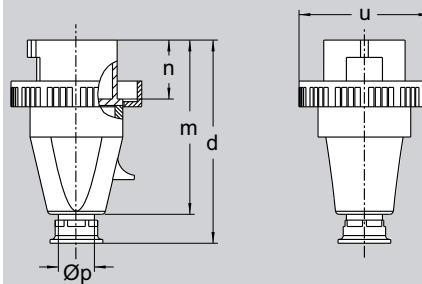
Insert the glass fiber cable contact together with the POF cable through the crimp opening of the crimping tool into the positioning sleeves. By imposing pressure on the contact, the fiber inside the contact will be locked in the right position for fiber crimping. Continue to apply pressure until the release mechanism is heard.





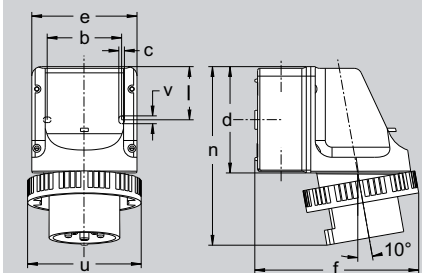
Amp.	16		32
Poles	3	5	5
b	66,5	66,5	66,5
c	5	5	5
d	96	96	96
e	95	95	95
f	140	147	156
l	47,5	47,5	47,5
n	164	164	176
u	72	88	103
v	7	7	7
M	20/25	20/25	20/25

Wall sockets,
internal fixing,
2 knock-out cable entries on top and bottom
IP 67



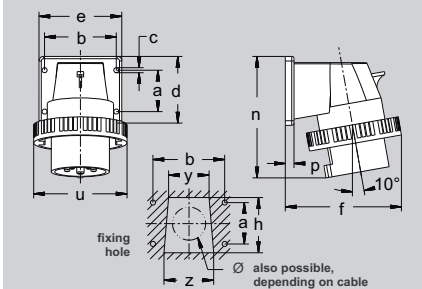
Amp.	16		32
Poles	3	5	5
d	126	139	166
m	110	114	135
n	37	37	46
u	72	88	103
Øp	7,5-12,5	10-19,5	18-24,5

Plugs,
trumpet gland,
IP 67



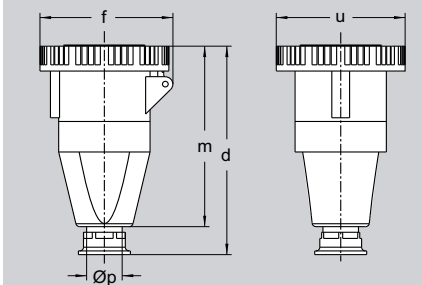
Amp.	16		32
Poles	3	5	5
b	66,5	66,5	66,5
c	5	5	5
d	96	96	96
e	95	95	95
f	140	140	150
l	47,5	47,5	47,5
n	154	154	164
u	72	88	103
v	7	7	7
M	20/25	20/25	20/25

Wall mount appliance inlets,
internal fixing,
2 knock-out cable entries on top and bottom,
IP 67



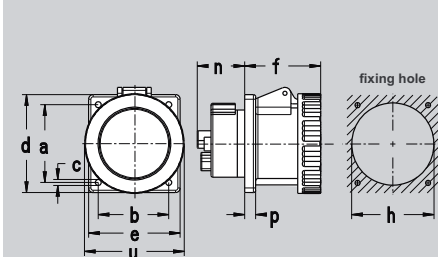
Amp.	16		32
Poles	3	5	5
a	30	40	45
b	55	68	78
c	5,5	5,5	5,5
d	52	66	75
e	65	80	90
f	81	103	117
h	38	52	60
n	98	113	131
p	9,5	9,5	9,5
u	72	88	103
y	30	38	44
z	36	46	54

Panel mount appliance inlets, angled,
with screwed flange,
IP 67



Amp.	16		32
Poles	3	5	5
d	136	150	177
f	78	91	105
m	121	126	149
u	72	88	103
Øp	7,5-12,5	10-19,5	18-24,5

Couplers,
trumpet gland,
IP 67

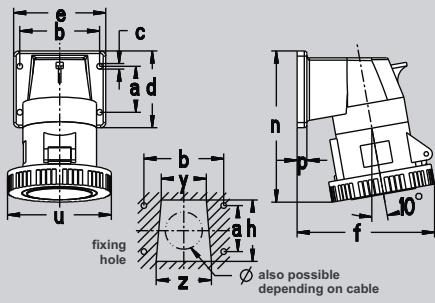


Amp.	16		32
Poles	3	5	5
a	47	60	60
b	47	60	60
c	5,5	5,5	5,5
d	62	80	80
e	62	80	80
f	57	59	70
h	46	67	71
n	22	22	23
p	8,5	8,5	8,5
u	72	88	103

Panel sockets, straight,
with screwed flange,
IP 67

Ampère	Poles	Max. no. of control contacts	110 V 50 and 60 Hz		230 V 50 and 60 Hz		400 V 50 and 60 Hz		440 V 60 Hz		500 V 50 and 60 Hz			 2 P+E	 3 P+N+E
			3-pole 4 h	5-pole 4 h	3-pole 6 h	5-pole 9 h	3-pole 9 h	5-pole 6 h	5-pole 11 h	3-pole 7 h	5-pole 7 h				
Part numbers															
16	3	6 pcs.*	7 119 304	7 119 306	7 119 309	7 119	7 119 511	7 119 507	5		7119				
16	5	9 pcs.*	7 119 504	7 119 509	7 119	7 119 511	7 119 507	5							
32	5	10 pcs.*	7 139 504	7 139 509	7 139	7 139 511	7 139 507	5							
16	3	6 pcs.*	7 219 304	7 219 306	7 219 309	7 219	7 219 511	7 219 507	10		7219				
16	5	9 pcs.*	7 219 504	7 219 509	7 219	7 219 511	7 219 507	10							
32	5	10 pcs.*	7 239 504	7 239 509	7 239	7 239 511	7 239 507	10							
16	3	6 pcs.*	7 618 304	7 618 306	7 618 309	7 618	7 618 511	7 618 507	5		7618				
16	5	9 pcs.*	7 618 504	7 618 509	7 618	7 618 511	7 618 507	5							
32	5	10 pcs.*	7 638 504	7 638 509	7 638	7 638 511	7 638 507	5							
16	3	6 pcs.*	7 619 304	7 619 306	7 619 309	7 619	7 619 511	7 619 507	5		7618				
16	5	9 pcs.*	7 619 504	7 619 509	7 619	7 619 511	7 619 507	5							
32	5	10 pcs.*	7 639 504	7 639 509	7 639	7 639 511	7 639 507	5							
16	3	6 pcs.*	7 319 304	7 319 306	7 319 309	7 319	7 319 511	7 319 507	10		7319				
16	5	9 pcs.*	7 319 504	7 319 509	7 319	7 319 511	7 319 507	10							
32	5	10 pcs.*	7 339 504	7 339 509	7 339	7 339 511	7 339 507	10							
16	3	6 pcs.*	7 419 304	7 419 306	7 419 309	7 419	7 419 511	7 419 507	10		7419				
16	5	9 pcs.*	7 419 504	7 419 509	7 419	7 419 511	7 419 507	10							
32	5	10 pcs.*	7 439 504	7 439 509	7 439	7 439 511	7 439 507	10							

* Please order crimp and glass fiber cable contacts separately








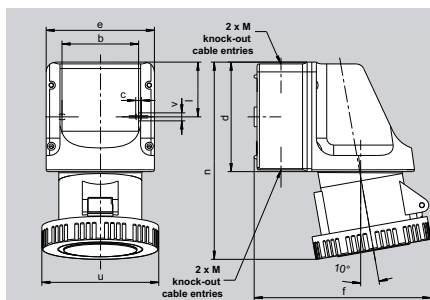
Amp.	16		32
Poles	3	5	5
a	30	40	45
b	55	68	78
c	5,5	5,5	5,5
d	52	66	75
e	65	80	90
f	88	108	123
h	38	52	60
n	109	123	145
p	9,5	9,5	9,5
u	72	88	103
y	30	38	44
z	38	46	54

Panel sockets, angled,
with screwed flange enclosure,
IP 67 ☹☹

Amp.	16		32
Poles	3	5	5
k	70	86	99
n	41	42	52
u	60	76	89

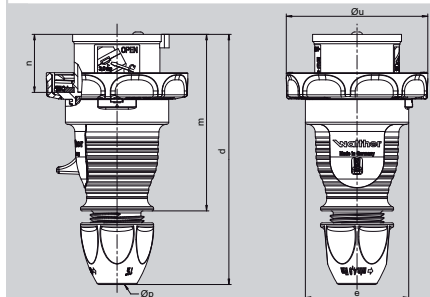
Protective caps,
for plugs and appliance inlets,
with attachment kit
IP 67 ☹☹

Ampère	Poles	Max. no. of control contacts	110 V 50 and 60 Hz		230 V 50 and 60 Hz		400 V 50 and 60 Hz		440 V 60 Hz	500 V 50 and 60 Hz			 2 P + E	 3 P + N + E
			3-pole 4 h	5-pole 4 h	3-pole 6 h	5-pole 9 h	3-pole 9 h	5-pole 6 h	5-pole 11 h	3-pole 7 h	5-pole 7 h			
Part numbers														
16	3	6 pcs.*	7 518 304	7 518 306	7 518 309								5	
16	5	9 pcs.*	7 518 504	7 518 509	7 518		7 518 511	7 518 507				5		
32	5	10 pcs.*	7 538 504	7 538 509	7 538		7 538 511	7 538 507				5		
* Please order crimp and glass fiber cable contacts separately														
16	3		613 300										10	
16	5		613 500										10	
32	5		633 500										10	



Amp.	32
Poles	4
b	66,5
c	5
d	96
e	95
f	154
l	47,5
n	176
u	96
v	7
M	20/25

Wall socket,
internal fixing,
2 knock-out cable entries on top and bottom,
IP 67

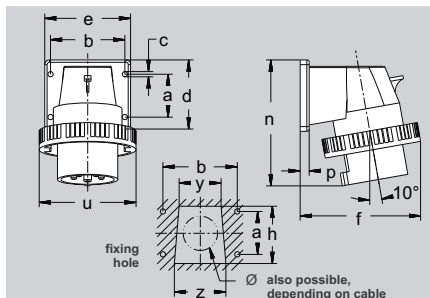


Amp.	32
Poles	4
d	150-161
Ø e	Ø 65
m	111
n	36,5
Ø u	Ø 81
Ø p	10 - 22,5

Plug, with screw terminal connection
with cable gland, IP 67

or

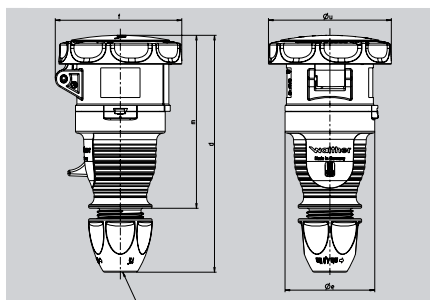
Plug, screwless („SL“),
with insulation displacement connection,
with cable gland, IP 67



Amp.	32
Poles	4
a	45
b	78
c	5,5
d	75
e	90
f	111
h	60
n	131
p	9,5
u	96
y	44
z	54

fixing dimensions = a + b,
flange dimensions = d + e

Panel mount appliance inlet, angled,
screwed flange enclosure,
IP 67

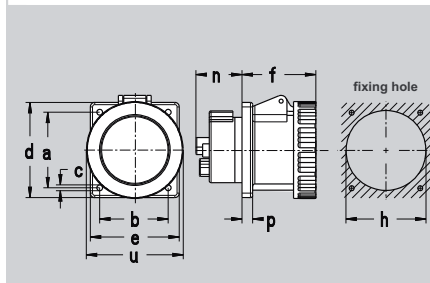


Amp.	32
Poles	4
d	174-183
Ø e	Ø 72
f	95
m	142
Ø u	Ø 95
Ø p	10 - 22,5

Coupler, with screw terminal connection,
with cable gland, IP 67

or

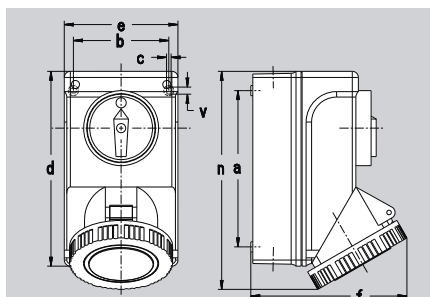
Coupler, screwless („SL“),
with insulation displacement connection,
with cable gland, IP 67



Amp.	32
Poles	4
a	60
b	60
c	5,5
d	75
e	75
f	65
h	60
n	27
p	9
u	96

fixing dimensions = a + b,
flange dimensions = d + e

Panel socket, straight,
fingerproof acc. to BGV A3,
IP 67

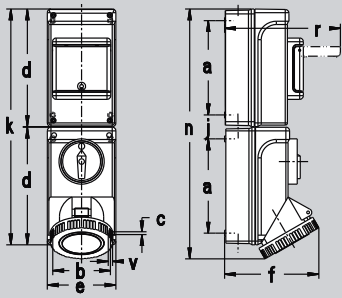


Amp.	32
Poles	4
a	154
b	94
c	4,5
d	193
e	113
f	154
n	215
v	7
M	25

Wall socket,
with switch and double interlocking,
with 3-pole switch,
IP 67

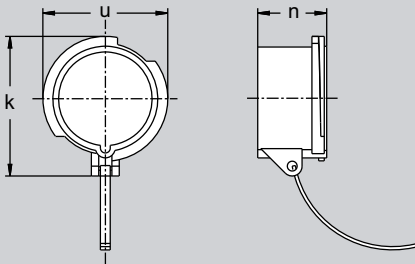
Container Plugs and Sockets

Ampère	Poles	<div style="background-color: red; color: white; padding: 2px;"> 400 - 440 V 50 - 60 Hz 4-pole 3 h </div>		 3 P + E
Part numbers				
32	4	139 403	5	 139403
32	4	239 403	10	 239
32	4	239 403 SL	10	
32	4	639 403	10	 639403
32	4	339 403	10	 339403
32	4	339 403 SL	10	
32	4	439 403	10	 439403
32	4	AT 139 403	1	 AT139403



Amp.	32
Poles	4
a	154
b	94
c	4,5
d	193
e	113
f	154
j	39
k	387
n	409
r	191
v	7
M	20/25





Wall socket,
with switch and DIN-rail,
with double interlocking,
switch 3-pole,
IP 67



Amp.	32
Poles	4
a	90
b	50
u	82

Protective cap,
for plugs and appliance inlets,
with attachment kit,
IP 67



Ampère	Poles	400 - 440 V 50 - 60 Hz 4-pole 3 h		
32	4	AU 139 403 TS	1	 AT139403
		633 400 for 32 A 4-pole	10	 633400

Container wall socket

Always 3-pole + \oplus 3 h.
Two cable entries on top and bottom. Cover fixing screws made of stainless steel.

The worldwide network of container loading stations, whether in

- ships
- harbours
- airports
- warehouses
- railway stations

is the result of our globalisation.

Therefore the associated plugs and sockets are internationally standardised according to IEC 309-2/EN 60 309-2.

This includes:

- Plugs and sockets
3-pole + \oplus 3 h, 400-440 V
- Nickel-plated contacts
- Highly heat resistant contact carriers
- Protection degree IP 67



HIGH CURRENT PLUGS & SOCKETS FOR APPLICATIONS > 200 A - 400 A

For many years, WALTHER-WERKE have been a strong partner in the area of CEE plugs and socket devices up to 125 A. Now the well-known program has been extended to high-current plug and socket devices up to 400 A. As usual, highest priority is given to safety standards, quality and reliability. These plug and socket devices can be found in a variety of applications such as tunneling, shipbuilding, opencast mining or the mining industry, where they fully meet the customers' requirements.

Plug and socket devices for customer-specific solutions

If standard solutions can not meet all the requirements of an application, customer-specific solutions can be produced on request. The customer is involved in every step in order to develop a perfect solution.

Areas of application



Tunneling | The most commonly used high-current plugs and sockets in tunnel construction, which are characterized by their reliability and maximum service life.

Marine | Ideal for power supply of powerful underwater motor pumps.



Railway | Plug and socket devices are used in the depot for the power supply of trains.

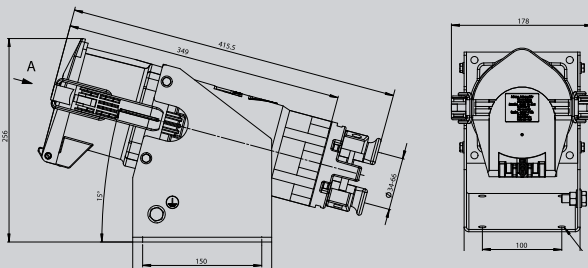


Gravel plants | Plug and socket devices are used for the power supply of conveyor belts. IP 67 and IK 10 provide protection against external strain and impact.



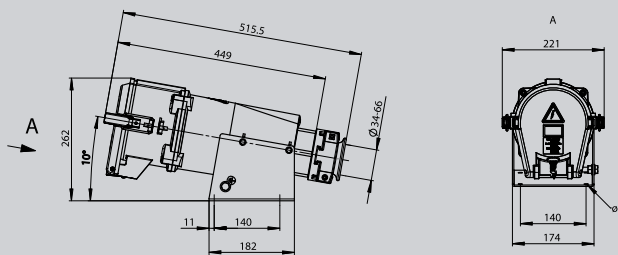


16



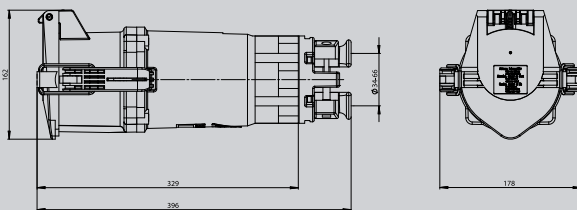
CEE high current wall socket with screw terminal connection

Housing back part made of plastic, with high temperature resistant contact carrier, silver-plated brass contacts, External fixing, C-Line



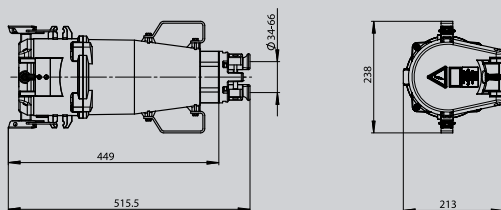
CEE high current wall socket with screw terminal connection

Housing back part made of aluminum with high temperature resistant contact carrier, silver-plated brass contacts, External fixing B-Line



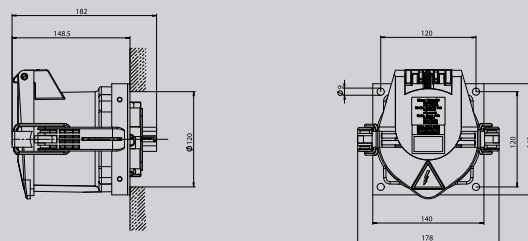
CEE high current coupler with screw terminal connection

Housing back part made of plastic, with high temperature resistant contact carrier, silver-plated brass contacts, C-Line



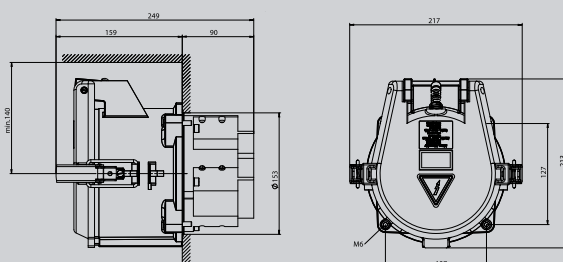
CEE high current coupler with screw terminal connection

Housing back part made of aluminum, with high temperature resistant contact carrier, silver-plated brass contacts, B-Line



CEE high current panel socket, straight, with screw terminal connection










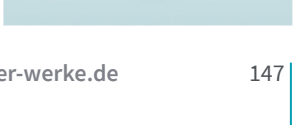
Aluminum housing with high temperature resistant contact carrier, silver-plated brass contacts, C-Line

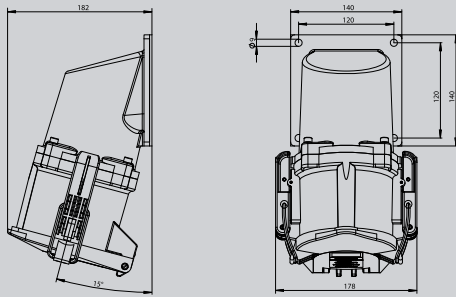


CEE high current panel socket, straight, with screw terminal connection

Aluminum housing with high temperature resistant contact carrier, silver-plated brass contacts, B-Line

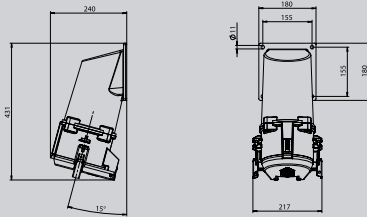
CEE High Current Plugs & Sockets

Ampère	Poles	230 V 50 / 60 Hz		400 V 50 / 60 Hz		500 V 50 / 60 Hz		690 V 50 / 60 Hz		1000 V 50 / 60 Hz			  3P+E 3P+N+E
		4-pole 9h	5-pole 9h	4-pole 6h	5-pole 6h	4-pole 7h	5-pole 7h	4-pole 5h	5-pole 5h	4-pole 1h	5-pole 1h		
Part numbers													
200	4	1A9409	1A9406	1A9407	1A9405	1A9401	1						
200	5	1A9509	1A9506	1A9507	1A9505	1A9501	1						
250	4	1B9409	1B9406	1B9407	1B9405	1B9401	1						
250	5	1B9509	1B9506	1B9507	1B9505	1B9501	1						
250	4	1C9409	1C9406	1C9407	1C9405	1C9401	1						
250	5	1C9509	1C9506	1C9507	1C9505	1C9501	1						
315	4	1D9409	1D9406	1D9407	1D9405	1D9401	1						
315	5	1D9509	1D9506	1D9507	1D9505	1D9501	1						
400	4	1E9409	1E9406	1E9407	1E9405	1E9401	1						
400	5	1E9509	1E9506	1E9507	1E9505	1E9501	1						
200	4	3A9409	3A9406	3A9407	3A9405	3A9401	1						
200	5	3A9509	3A9506	3A9507	3A9505	3A9501	1						
250	4	3B9409	3B9406	3B9407	3B9405	3B9401	1						
250	5	3B9509	3B9506	3B9507	3B9505	3B9501	1						
250	4	3C9409	3C9406	3C9407	3C9405	3C9401	1						
250	5	3C9509	3C9506	3C9507	3C9505	3C9501	1						
315	4	3D9409	3D9406	3D9407	3D9405	3D9401	1						
315	5	3D9509	3D9506	3D9507	3D9505	3D9501	1						
400	4	3E9409	3E9406	3E9407	3E9405	3E9401	1						
400	5	3E9509	3E9506	3E9507	3E9505	3E9501	1						
200	4	4A9409	4A9406	4A9407	4A9405	4A9401	1						
200	5	4A9509	4A9506	4A9507	4A9505	4A9501	1						
250	4	4B9409	4B9406	4B9407	4B9405	4B9401	1						
250	5	4B9509	4B9506	4B9507	4B9505	4B9501	1						
250	4	4C9409	4C9406	4C9407	4C9405	4C9401	1						
250	5	4C9509	4C9506	4C9507	4C9505	4C9501	1						
315	4	4D9409	4D9406	4D9407	4D9405	4D9401	1						
315	5	4D9509	4D9506	4D9507	4D9505	4D9501	1						
400	4	4E9409	4E9406	4E9407	4E9405	4E9401	1						
400	5	4E9509	4E9506	4E9507	4E9505	4E9501	1						



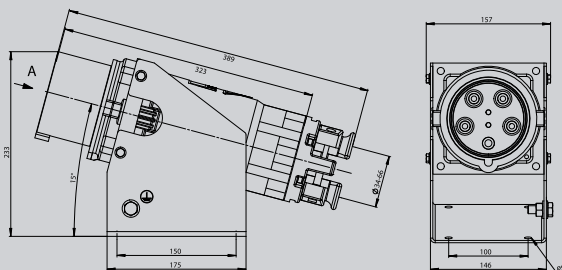
CEE high current panel socket, angled, with screw terminal connection

Aluminum housing with high temperature resistant contact carrier, silver-plated brass contacts, C-Line



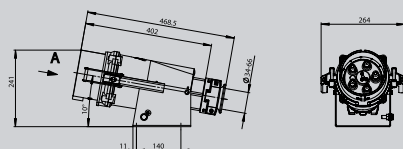
CEE high current panel socket, angled, with screw terminal connection

Aluminum housing with high temperature resistant contact carrier, silver-plated brass contacts, B-Line



CEE high current wall mounted inlet with screw terminal connection






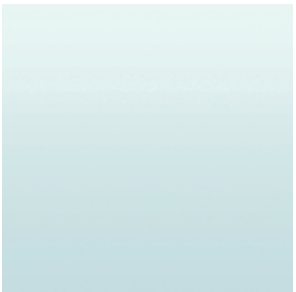



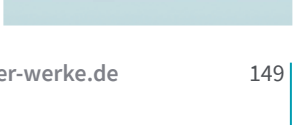
Housing back part made of plastic, with high temperature resistant contact carrier, silver-plated brass contacts, External fixing C-Line

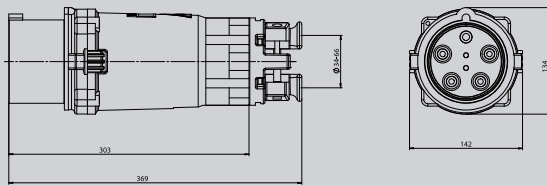


CEE high current wall mounted inlet with screw terminal connection

Housing back part made of aluminum with high temperature resistant contact carrier, silver-plated brass contacts, External fixing B-Line

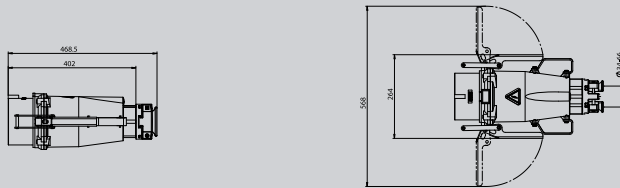
CEE High Current Plugs & Sockets

Ampère	Poles	230 V 50 / 60 Hz		400 V 50 / 60 Hz		500 V 50 / 60 Hz		690 V 50 / 60 Hz		1000 V 50 / 60 Hz			  3P+E 3P+N+E
		4-pole 9h	5-pole 9h	4-pole 6h	5-pole 6h	4-pole 7h	5-pole 7h	4-pole 5h	5-pole 5h	4-pole 1h	5-pole 1h		
Part numbers													
200	4	5A9409	5A9406	5A9407	5A9405	5A9401	1						
200	5	5A9509	5A9506	5A9507	5A9505	5A9501	1						
250	4	5B9409	5B9406	5B9407	5B9405	5B9401	1						
250	5	5B9509	5B9506	5B9507	5B9505	5B9501	1						
250	4	5C9409	5C9406	5C9407	5C9405	5C9401	1						
250	5	5C9509	5C9506	5C9507	5C9505	5C9501	1						
315	4	5D9409	5D9406	5D9407	5D9405	5D9401	1						
315	5	5D9509	5D9506	5D9507	5D9505	5D9501	1						
400	4	5E9409	5E9406	5E9407	5E9405	5E9401	1						
400	5	5E9509	5E9506	5E9507	5E9505	5E9501	1						
200	4	6A0409	6A0406	6A0407	6A0405	6A0401	1						
200	5	6A0509	6A0506	6A0507	6A0505	6A0501	1						
250	4	6B0409	6B0406	6B0407	6B0405	6B0401	1						
250	5	6B0509	6B0506	6B0507	6B0505	6B0501	1						
250	4	6C0409	6C0406	6C0407	6C0405	6C0401	1						
250	5	6C0509	6C0506	6C0507	6C0505	6C0501	1						
315	4	6D0409	6D0406	6D0407	6D0405	6D0401	1						
315	5	6D0509	6D0506	6D0507	6D0505	6D0501	1						
400	4	6E0409	6E0406	6E0407	6E0405	6E0401	1						
400	5	6E0509	6E0506	6E0507	6E0505	6E0501	1						



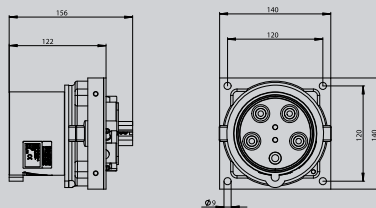
CEE high current plug with screw terminal connection

Housing back part made of plastic, with high temperature resistant contact carrier, silver-plated brass contacts, C-Line



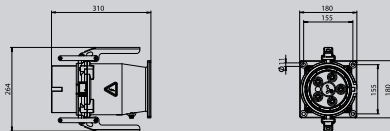
CEE high current plug with screw terminal connection

Housing back part made of aluminum, with high temperature resistant contact carrier, silver-plated brass contacts, B-Line



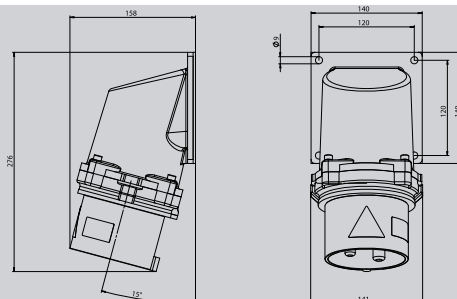
CEE high current panel mounted inlet, straight, with screw terminal connection

Aluminum housing with high temperature resistant contact carrier, silver-plated brass contacts, C-Line



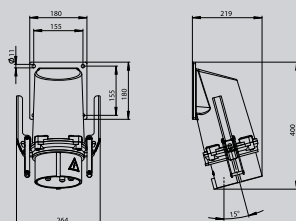
CEE high current panel mounted inlet, straight, with screw terminal connection

Aluminum housing with high temperature resistant contact carrier, silver-plated brass contacts, B-Line



CEE high current panel mounted inlet, angled, with screw terminal connection








Aluminum housing with high temperature resistant contact carrier, silver-plated brass contacts, C-Line

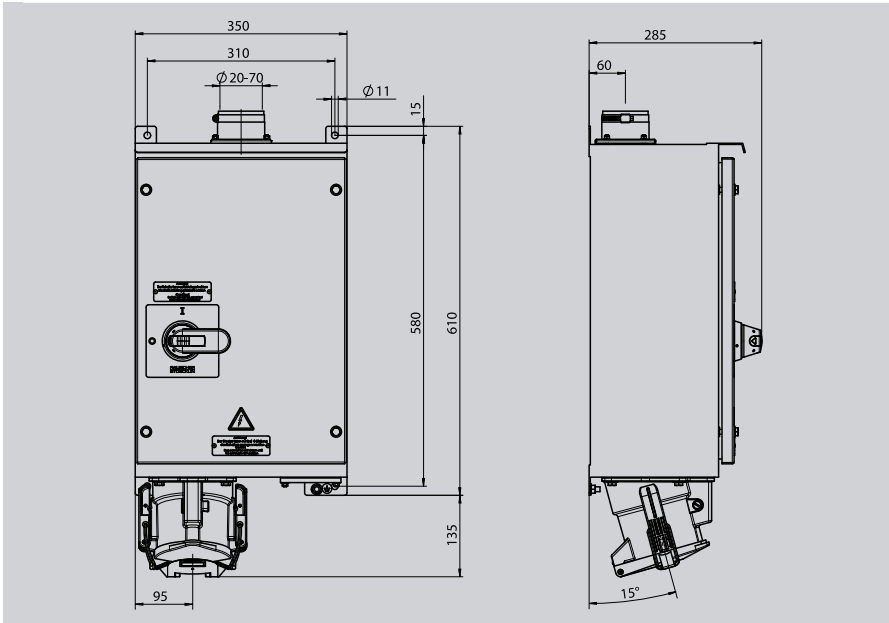


CEE high current panel mounted inlet, angled, with screw terminal connection

Aluminum housing with high temperature resistant contact carrier, silver-plated brass contacts, B-Line

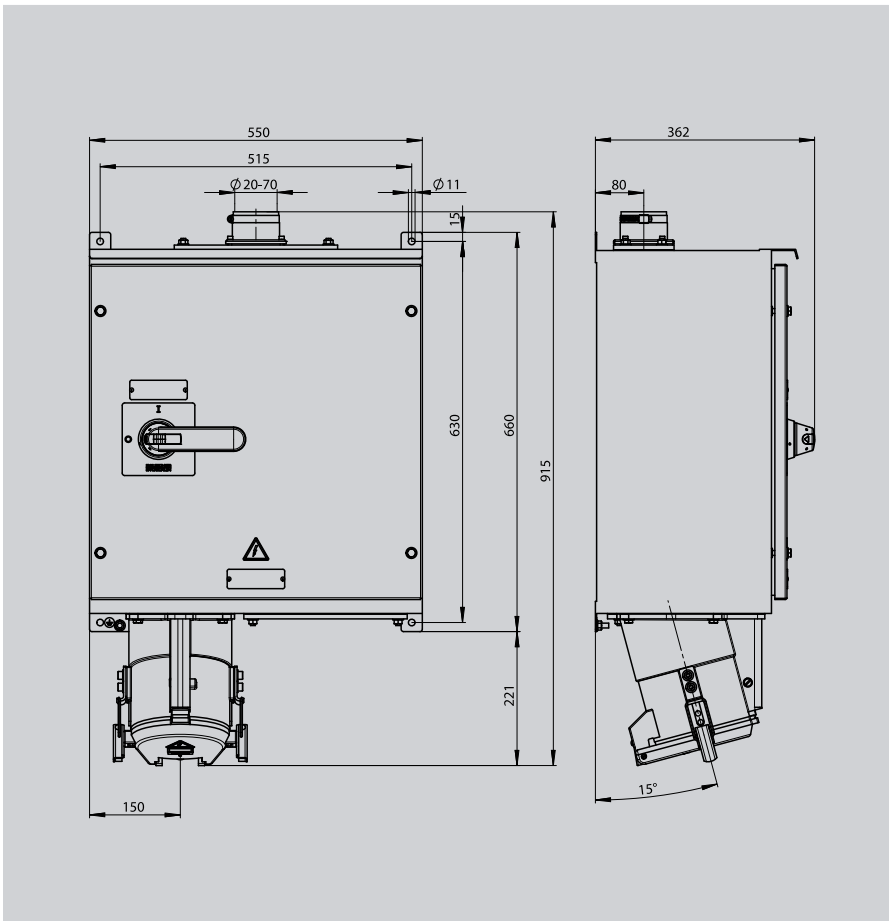
CEE High Current Plugs & Sockets

Ampère	Poles	230 V 50 / 60 Hz		400 V 50 / 60 Hz		500 V 50 / 60 Hz		690 V 50 / 60 Hz		1000 V 50 / 60 Hz			  3P+E 3P+N+E
		4-pole 9h	5-pole 9h	4-pole 6h	5-pole 6h	4-pole 7h	5-pole 7h	4-pole 5h	5-pole 5h	4-pole 1h	5-pole 1h		
Part numbers													
200	4	2A9409	2A9406	2A9407	2A9405	2A9401	1						
200	5	2A9509	2A9506	2A9507	2A9505	2A9501	1						
250	4	2B9409	2B9406	2B9407	2B9405	2B9401	1						
250	5	2B9509	2B9506	2B9507	2B9505	2B9501	1						
250	4	2C9409	2C9406	2C9407	2C9405	2C9401	1						
250	5	2C9509	2C9506	2C9507	2C9505	2C9501	1						
315	4	2D9409	2D9406	2D9407	2D9405	2D9401	1						
315	5	2D9509	2D9506	2D9507	2D9505	2D9501	1						
400	4	2E9409	2E9406	2E9407	2E9405	2E9401	1						
400	5	2E9509	2E9506	2E9507	2E9505	2E9501	1						
200	4	6A5409	6A5406	6A5407	6A5405	6A5401	1						
200	5	6A5509	6A5506	6A5507	6A5505	6A5501	1						
250	4	6B5409	6B5406	6B5407	6B5405	6B5401	1						
250	5	6B5509	6B5506	6B5507	6B5505	6B5501	1						
250	4	6C5409	6C5406	6C5407	6C5405	6C5401	1						
250	5	6C5509	6C5506	6C5507	6C5505	6C5501	1						
315	4	6D5409	6D5406	6D5407	6D5405	6D5401	1						
315	5	6D5509	6D5506	6D5507	6D5505	6D5501	1						
400	4	6E5409	6E5406	6E5407	6E5405	6E5401	1						
400	5	6E5509	6E5506	6E5507	6E5505	6E5501	1						
200	4	6A1409	6A1406	6A1407	6A1405	6A1401	1						
200	5	6A1509	6A1506	6A1507	6A1505	6A1501	1						
250	4	6B1409	6B1406	6B1407	6B1405	6B1401	1						
250	5	6B1509	6B1506	6B1507	6B1505	6B1501	1						
250	4	6C1409	6C1406	6C1407	6C1405	6C1401	1						
250	5	6C1509	6C1506	6C1507	6C1505	6C1501	1						
315	4	6D1409	6D1406	6D1407	6D1405	6D1401	1						
315	5	6D1509	6D1506	6D1507	6D1505	6D1501	1						
400	4	6E1409	6E1406	6E1407	6E1405	6E1401	1						
400	5	6E1509	6E1506	6E1507	6E1505	6E1501	1						



CEE high current wall socket, switchable
with mechanical interlock
with load break switch 3-pole,
Silver-plated brass contacts
Enclosure made of powder-coated steel sheet,
C-Line





CEE high current wall socket, switchable
with mechanical interlock
with load break switch 3-pole,
Silver-plated brass contacts
Enclosure made of powder-coated steel sheet,
C-Line



CEE high current wall socket, switchable
with mechanical interlock
with load break switch 3-pole,
Silver-plated brass contacts
Enclosure made of powder-coated steel sheet,
B-Line

CEE high current wall socket, switchable
with mechanical interlock
with load break switch 3-pole,
Silver-plated brass contacts
Enclosure made of powder-coated steel sheet,
B-Line

CEE high current wall socket, switchable
with mechanical interlock
with load break switch 3-pole,
Silver-plated brass contacts
Enclosure made of powder-coated steel sheet,
B-Line


Ampère	Poles	230 V 50 / 60 Hz		400 V 50 / 60 Hz		500 V 50 / 60 Hz		690 V 50 / 60 Hz		1000 V 50 / 60 Hz			  3P+E 3P+N+E
		4-pole 9h	5-pole 9h	4-pole 6h	5-pole 6h	4-pole 7h	5-pole 7h	4-pole 5h	5-pole 5h	4-pole 1h	5-pole 1h		
Part numbers													
200	4	AT1A0409	AT1A0406	AT1A0407	AT1A0405	AT1A0401	1						
200	5	AT1A0509	AT1A0506	AT1A0507	AT1A0505	AT1A0501	1						
250	4	AT1B0409	AT1B0406	AT1B0407	AT1B0405	AT1B0401	1						
250	5	AT1B0509	AT1B0506	AT1B0507	AT1B0505	AT1B0501	1						

Locking system

Male plug and socket device will be connected with switchable wall socket. Switch is manually set to the „ON“ position. The plug and socket device is now under load and is mechanically locked via a linkage integrated in the switched wall socket.

Only by moving the switch to the „OFF“ position, the plug and socket device can be disconnected from the connector unit.



250	4	AT1C0409	AT1C0406	AT1C0407	AT1C0405	AT1C0401	1						
250	5	AT1C0509	AT1C0506	AT1C0507	AT1C0505	AT1C0501	1						
315	4	AT1D0409	AT1D0406	AT1D0407	AT1D0405	AT1D0401	1						
315	5	AT1D0509	AT1D0506	AT1D0507	AT1D0505	AT1D0501	1						
400	4	AT1E0409	AT1E0406	AT1E0407	AT1E0405	AT1E0401	1						
400	5	AT1E0509	AT1E0506	AT1E0507	AT1E0505	AT1E0501	1						



Development of the standard IEC 60309	page 156
CEE clock as per IEC (series I)	page 156
Standardized voltages and frequencies	page 157
CEE clock as per IEC and UL (series II)	page 158
Plugs and sockets for USA and Canada	page 158
Setup of a plug and socket device ≤ 50 V	page 159
Setup of a plugs and socket device > 50 V	page 160
Degrees of protection IP + IK	page 161
Materials + chemical resistance	page 162
Switching capacity, behavior in use	page 166
Power supply systems by type of ground connections	page 167
Grid types	page 168
WALTHER CEEtyp item number system	page 171
Approvals	page 171

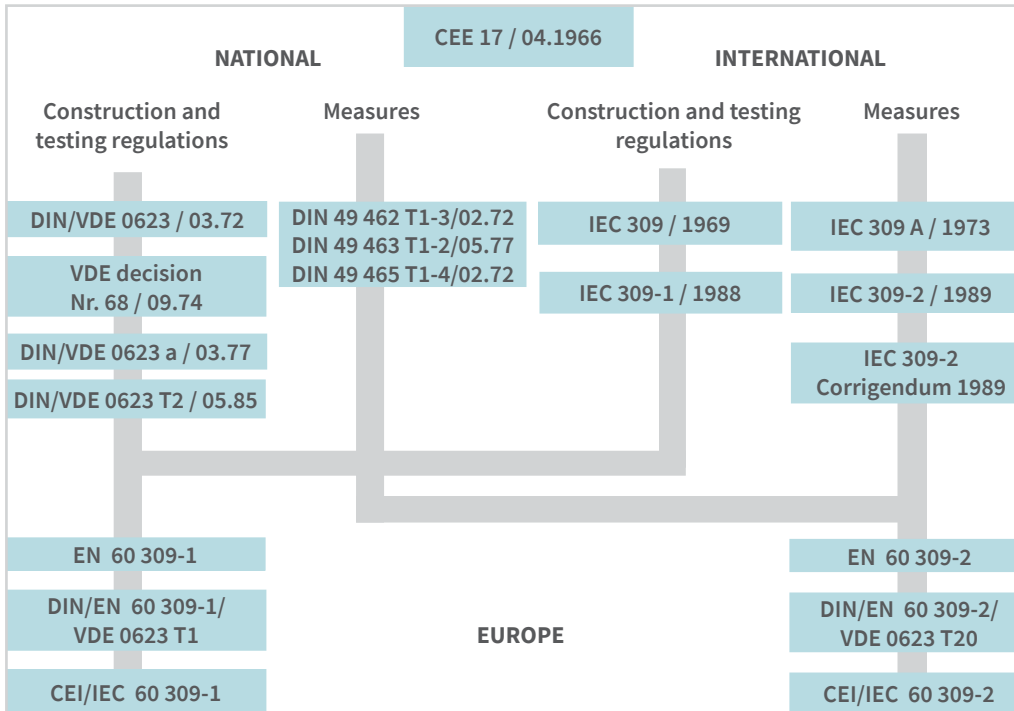


Development of the standard IEC 60309

The international standard for CEE plugs and sockets is defined in IEC 60309. Historically, this standard was derived from CEE17, which comes from the draft standards of WALTHER-Werke in the 1960s. In the UK, CEE17 was applied as BS 4343 (also known as "CEE-form"). IEC 60309 generally describes the requirements for plugs, sockets, line couplers and device plugs and outlets for industrial applications. This standard was developed from the European standard CEE 17 that appeared in 1966, since a standardization on a global level was advantageous due to the worldwide trade relations. Because of this globally valid standard, it is now possible to operate machines, systems and devices all over the world without having to use specific national plug systems.

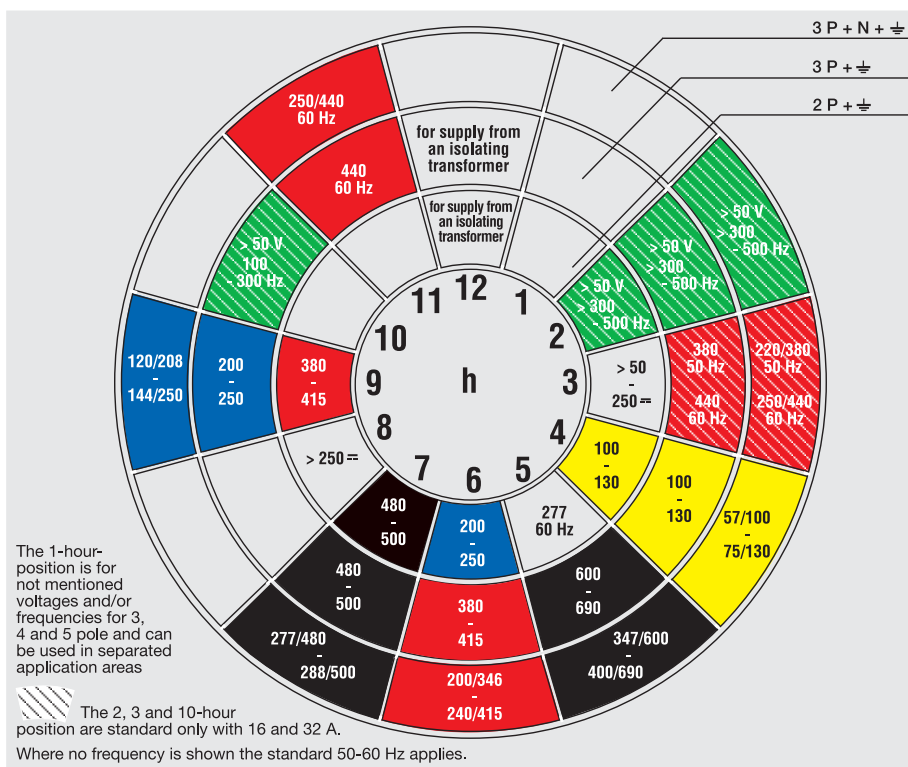
WALTHER CEEtyp plugs and sockets are CEE plugs and sockets that are in line with the international standard IEC/EN 60309-1 and 60309-2.

Overview of the standards development



- CEE** - International Commission on Rules for Approval of Electrical Equipment
- IEC** - International Electro-technical Commission
- CEI** - Commission Électro-technique Internationale
- DIN** - Deutsches Institut für Normung [German national organization for standardization]
- VDE** - Verband deutscher Elektrotechniker [Association of German Electrical Engineers]
- EN** - European Standard

WALTHER CEE clock acc. to IEC 60309-1 (series I)



The voltages and frequencies specified in this diagram are prescribed for use in accordance with IEC 60309-1 (series I). In this way, the same plug system can be applied globally for machines and systems. The colors of the individual standardized voltages and frequencies are color recommendations of the standard and are used to identify the respective voltage and frequency.




The shaded clock positions (2 h, 3 h and 10 h) are only standardized with 16 A and 32 A.

The clock positions are always read from the plug side of the socket.

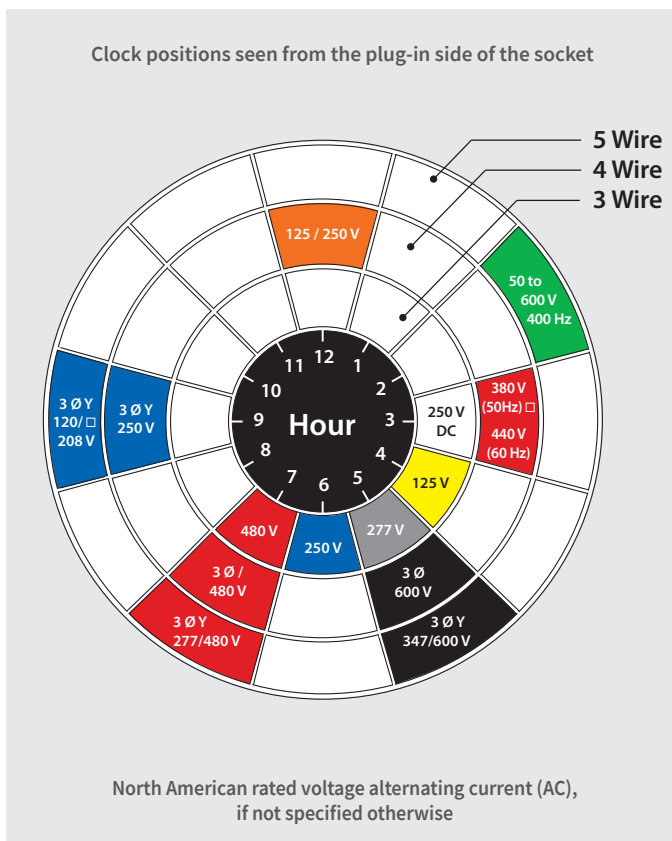
Standardized voltages and frequencies

The general maximum permissible load values are as follows:

- Max. voltage.: 690 V (DC or AC voltage),
- Max. current carrying capacity: 125 A
- Max. frequency: 500 Hz
- Operating environment temperature from -25 to +40 °C

Position of grounding sleeve	Standardized usage examples	Standardized voltages and frequencies Recommended color coding as per IEC 650309-1, -2		
		 2 P + E	 3 P + E	 3 P + N + E
1 h	Free for special applications	For all voltages and frequencies (up to max. 1000 V) that are not listed in one of the other groups		
2 h	Concrete vibrator/compressor, high-frequency motors	> 50 V > 300 - 500 Hz 16 A / 32 A	> 50 V > 300 - 500 Hz 16 A / 32 A	> 50 V > 300 - 500 Hz 16 A / 32 A
3 h	4-pole and 5-pole cooling containers (standardized as per ISO)	50 - 250 V DC	380 V 50 Hz 440 V 60 Hz	220/380 V 50 Hz 250/440 V 60 Hz
4 h	Voltage levels in parts of England or English colonies	100 - 130 V 50/60 Hz	100 - 130 V 50/60 Hz	57/100 - 75/130 V 50/60 Hz
5 h	Open pit mining or tunnel construction	277 V 60 Hz	600 - 690 V 50/60 Hz	347/600 - 400/690 V 50/60 Hz
6 h	Standard voltages in Western Europe	200-250 V 50/60 Hz	380 - 415 V 50/60 Hz	200/346 - 240/415 V 50/60 Hz
7 h	Open pit mining and mining	480 - 500 V 50/60 Hz	480 - 500 V 50/60 Hz	480-500 V 50/60 Hz ⁶
8 h		> 250 V DC	1000 V	Not occupied
9 h	Voltage level, e.g. Norway	380 - 415 V 50/60 Hz	200 - 250 V 50/60 Hz	120/208 - 144/250 V 50/60 Hz
10 h		Not occupied	> 50 V > 100 - 300 Hz	Not occupied
11 h	e.g. maritime installations	Not occupied	440 - 460 V 60 Hz	250/440 - 265/460 V 60 Hz
12 h	For voltages after insulating and isolating transformers	after isolating transformer	after isolating transformer	

WALTHER CEE clock acc. to IEC 60309-1 (series II) and UL 1686



In countries where series II devices are used, the color orange is reserved for devices for 125/250 V~ and the color gray is reserved for devices for 277 V~.

The rated voltages are:

2 poles - 3 wire (3-pole) Volt Clock position Color code	125 V AC 4 yellow	250 V AC 6 blue	277 V AC 5 gray	480 V AC 7 red
	250 V DC - 3 h - blue			
3 poles - 4 wire (4-pole) Volt Clock position Color code	125/250V AC 12 orange	3Ø250 V AC 9 blue	3Ø480 V AC 7 red	3Ø600 V AC 5 black
4 poles - 5 wire (5-pole) Volt Clock position Color code	3ØY120/208 V AC 9 blue	3ØY 277/480 V AC 7 red	3Ø 347/600 V AC 5 black	

UL 1682 and UL 1686 C2

Other voltage systems are used in the USA and Canada. The rated frequency is also 60 Hz.

The phase identifiers are:

L1 = X, L2 = Y, L3 = Z,

Neutral conductor N = W or white dot,

Protective conductor \oplus = G or green dot.

The rated currents are 20, 30, 60 and 100 A.

**Setup of a CEE plug and socket device ≤ 50 V
(safety extra-low voltage)**

CEE plugs and sockets ≤ 50 V have an additional minor keyway that is used in addition to the major keyway due to the lack of the unnecessary earth contact. The major keyway is always arranged in the clock position 6 h.

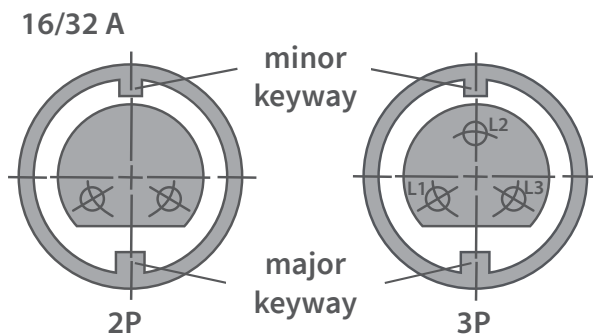
The minor keyway is assigned a clock position depending on the voltage and frequency value. Contact sleeves of sockets and couplers with rated operating voltages ≤ 50 V must be arranged as shown on standard sheet 2-VIII as per DIN EN 60309-2.

For structural reasons, the clock times 5, 6 and 7 cannot be used. The clock times 1, 8 and 9 are reserved for future standards.

The different widths of the major keyways are:

- 4 mm for 32/30 A plug
- 7 mm for 16/20 A plug

These different widths of the major keyways prevent the insertion of 32/30 A plugs in 16/20 A sockets.



WALTHER NORVO clock (for low voltages)

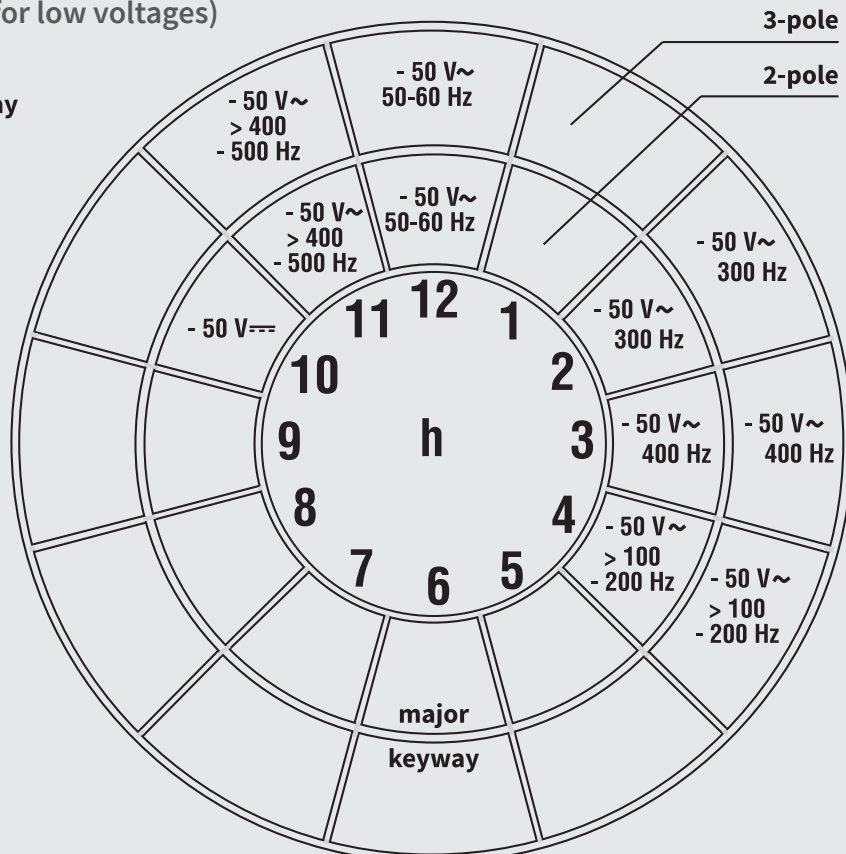
Position of the keyway relative to the major keyway for the different frequencies

Colour code:

24 V: purple
42 V: white
12 h
10 h

42 V: green
4 h
2 h
3 h
11 h

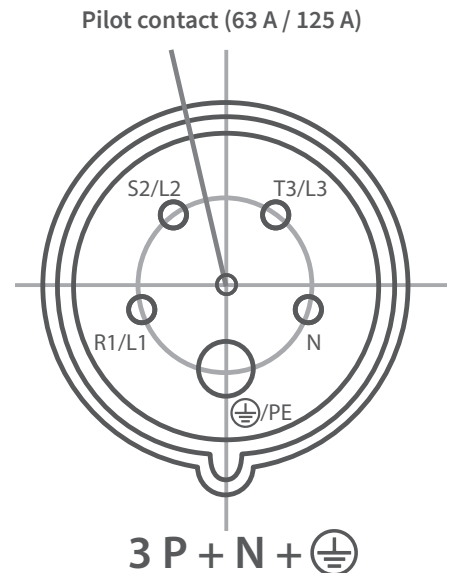
20-25 V 50 and 60 Hz
without minor keyway



Setup of a CEE plug and socket device > 50 V

Voltage systems with voltages > 50 V must have a protective contact. The protective contact as well as the phases and any neutral conductors present are arranged in a circle.

An essential safety feature is that unintentional connecting between different current, voltage and frequency versions is not possible due to several properties. The plug has an outer keyway that can only be plugged into an equivalent recess / groove on the socket. The keyway and recess are always in the 6 o'clock position. The earth contact that must have the right clock position both on the plug and socket side is forcibly guided by this keyway/groove principle. In addition it has a larger diameter. The diameter is to be measured so that it is not inserted through the isolated feedthrough holes of the phases and any existing neutral conductor contact, which additional rules out reverse polarity. The protective conductor can therefore not be inserted into a live conductor. The larger diameter of the earth contact also leads to less contact resistance, which further increases the protective function. The position of the groove and keyway of the earth contact cannot be changed by the manufacturer for the user. The contact diameters are also of varying sizes for increasing currents.



Arrangement of contact sleeves and terminal designations at 6 h position.

There are a total of 8 rated currents over 50 V as per IEC 60309:

Voltage V (volt)	Rated current A (ampere)	
	Series I	Series II
Over 50 V	16 A	20 A
	32 A	30 A
	63 A	60 A
	125 A	100 A

The protective contact sleeve has the shortest distance to the plug surface. Thus the protective contact connection is pre-mating when plugging a plug into the socket opposite the live contacts or it is lagging when pulling the plug. The sockets have a groove to exclude confusion, which is set at 6 o'clock. The position of the protective contact sleeve to this groove indicates the coded voltage. The coded voltage may only be adjusted by the manufacturer. It must also not be possible to install a plug insert into a socket or coupler insert. If the protective contact coded voltage is color-coded, then the colors as per IEC/EN 60309-1, table 2 are to be used.

During the standardization of the CEE plugs and sockets, particular value was placed on optimal power transmission with the large contact surfaces between pins and sleeves. The brass sleeves are reinforced with additional tension springs here to establish a current transfer over the entire contact surface of the pin. This counteracts the heating under high load. An additional safeguard against undesired separation is brought about by the hook function of the spring-loaded hinged cover of the socket and coupler.

All plugs and sockets must have at least the IP44 degree of protection and must have sufficient strength to meet the rated data of the marked degree of protection after they were exposed to shocks that occur during proper operation. From 125 A and more, the IP67 degree of protection according to EN 60529 is required by standard. The IP67 degree of protection is achieved by a ring-shaped bayonet closure with a seal between the plug and outlet. However, plugs and sockets in lower currents can also be designed in IP67.



Rated operating voltage V	Color
20 bis 25	Purple
40 bis 50	White
100 bis 130	Yellow
200 bis 250	Blue
380 bis 480	Red
500 bis 690	Black

Source: IEC/EN 60 309-1, table 2

Overview of the classification of IP and IK degrees of protection

IK identification, EN 62262

The ID identification consists of 2 code digits (e.g. IK 06)

2 code digits

Degree of protection of safety against mechanical damage.

		h (cm)	Impact energy (J)
01		7.5	0.15
02		10	0.20
03		17.5	0.35
04		25	0.50
05		35	0.70
06		20	1
07		40	2
08		29.5	5
09		20	10
10		40	20

Code digit	1st code digit: Protection against foreign bodies and contact		2nd code digit: Protection against water	
0	not protected		not protected	
1	protected against solid foreign bodies > 50 mm		protected against vertically falling drip water	
2	protected against solid foreign bodies > 12.5 mm		protected against dripping water hitting at an angle	
3	protected against solid foreign bodies > 2.5 mm		protected against spray water	
4	protected against solid foreign bodies > 1 mm		protected against splash water	
5	protected against dust		protected against jet water	
6	sealed against dust		protected against strong jet water	
7	-		protected against temporary immersion	
8	-		protected against permanent immersion	

Materials, plastics and metals used:

CEEtyp plug and socket enclosures and contact carriers are made of high-quality halogen and cadmium-free plastics as a standard and are suitable for temperature ranges from -25°C to +100°, including contact heating. The plastics used are certified according to UL-94 and are self-extinguishing or non-flammable.

CEEtyp plug and socket contacts are made from solid brass. The contacts can also be nickel-plated for special applications, such as in aggressive environments or waterproof devices.

The layer of nickel protects the brass contacts from corrosion and wear.

Steel parts, like screws and springs, are galvanized and blue chromed or nickel-plated as a standard.

The terminal cross sections are designed according to IEC/EN 60 309-2 table 107. The contact may heat up by + 50 K to the initial temperature under test conditions according to table 8.

Rated conductor cross-sections

Nominal values of the plugs and sockets			Internal connections ¹⁾						External connections (if available)		
Voltage V	Rated current A		Cables for plugs and couplers, single or multi-wire cables for appliance inlets ²⁾			Single or multi-wire cables for sockets ²⁾					
	Series I	Series II	mm ²	AWG	Terminal size	mm ²	AWG	Terminal size	mm ²	Terminal size	AWG
up to 50	16	20	4 - 10	12-8	6	4 - 10	12 - 8	5			
	32	30	4 - 10	12-8	6	4 - 10	12 - 8	5			
over 50	16	20	1 - 2.5	16-12	2	1.5 - 4	16 - 12	3 ³⁾	6	4	10
	32	30	2.5 - 6	14-10	5	2.5 - 10	14 - 8	5	10	5	8
	63	60	6 - 16	10-6	7	6 - 25	10 - 4	7	25	7	4
	125	100	16 - 50	6-2	9 ⁴⁾	25 - 70	4 - 0	9 ⁴⁾	25	7	4

¹⁾ Connection terminals for pilot conductors, if present, must permit the connection of conductors with the same nominal cross-sections as the inner connection terminals of 16 A plugs and sockets with rated operating voltages over 50 V.

²⁾ Classification of cables: According to HD 383 S2 § 2 solid (class 1); multi-wire (class 2); flexible (class 5).

³⁾ for socket terminals, terminal size 2

⁴⁾ Compliance with terminal size 9 is temporarily not required.

Source: IEC/EN 60 309-2, Table 107

Preferred rated current series I/II	Test current	Cross-sections of the conductors				
		Plug, appliance inlet and coupler		Sockets		
Duration	A	A	mm ²	AWG	mm ²	AWG
1 h	16/20	22	2.5 ¹⁾	13	4 ¹⁾	11
1 h	32/30	42	6 ¹⁾	10	10	7
2 h	63/60	Rated current	16	5	25	3
2 h	125/100	Rated current	50	1/0	70	2/0

¹⁾ The values are increased to 10 for plugs and sockets up to 50 V rated operating voltage.

Source: IEC/EN 60 309-1, table 8

The plastics have a varying chemical resistance depending on the design.

The subdivision usually takes place in three simple categories:

chemically resistant:

The material retains its unchanged characteristic mechanical (e.g. strength), physical (e.g. coloring) and chemical (e.g. composition) properties, despite any long-term contact with the chemical substance to be tested. Since this ideal state virtually never occurs, a material in technology is still considered “resistant” that is only attacked very slowly.

conditionally chemically resistant:

The material retains its characteristic properties (see above) for a limited time span acceptable for the purpose or within specific limits of the application conditions.

chemically unstable:

The material loses its characteristic properties (see above) within a very short period of time or faster than the intended use allows. For example, some adhesives utilize the chemical instability of plastics towards a solvent by causing the material to partially dissolve in the area of the adhesive area (loss of mechanical strength), thereby allowing the material to mix with both adhesive parts. Once the solvent has evaporated, the adhesive area hardens again, resulting in a strong connection. The plastic would be completely unsuitable for building a container for the solvent in question, however.

For overview tables of chemical resistance of materials, see the following pages ►



Figure: Use of a chemically-resistant socket combination in the laboratory

Chemical resistance:

2 values are specified for each medium
left number = value at 20°C
right number = value at 50 °C

	Thermoplastics			Elastomers			Metals		
	Polycarbonate PC	Polyamide PA	Polystyrene PS	Ethylene- propylene Terpolymer EPDM	Ffuoro polymer (Viton) FPM/KFM	Nitrile rubber NBR	Aluminum Al	Stainless steel 1.4301 (AISI 304)	Stainless steel 1.4401 (AISI 316)
1. Hydrocarbons									
Hexane, n-	(2)	1/0	4/4	4/4	1/1	1/1	1/1	1/1	1/1
Gasoline, aromatic	3/3	1/0	4/4	4/4	(1-3)	3/0	1/1	1/1	1/1
Heating oil	3/3	1/0	3/4	4/4	1/1	1/1	1/1	1/1	1/1
Benzene	4/4	2/0	4/4	4/4	3/3	4/4	1/1	1/1	1/1
Naphthalene	(3)	1/0	3/4	4/4	1/1	4/4	1/1	1/1	1/1
Nitrobenzene	4/4	4/4	4/4	4/4	4/4	4/4	(1)	1/1	1/1
Toluene	4/4	1/0	4/4	4/4	3/3	4/4	1/1	1/1	1/1
2. Alcohols									
Ethyl alcohol, 40%	1/2	1/0	2/3	1/0	1/0	1/1	1/1	1/1	1/1
Ethyl alcohol, 50%	1/1	1/0	1/0	1/0	(2)	1/1	1/1	1/1	1/1
Ethyl alcohol, 96%	1/3	1/0	3/4	1/0	3/0	3/3	1/1	1/1	1/1
Isopropanol	1/2	1/0	4/4	1/0	1/1	3/3	(2)	(1)	(1)
Phenol 10%	4/4	4/4	4/4	4/4	2/3	4/4	1/1	1/2	1/1
Phenol 100%	4/4	4/4	4/4	4/4	3/0	4/4	1/1	1/2	1/1
Glycol	(2)	(3)	4/4	3/0	4/4	4/4	(1)	(1)	(1)
Ethylene glycol	(2)	(3)	4/4	3/0	4/4	4/4	(1)	(1)	(1)
Glycerol	3/3	1/0	1/1	1/0	1/1	1/0	1/1	1/1	1/1
3. Ketone									
Acetone	4/4	1/0	4/4	1/0	4/4	4/4	1/1	1/1	1/1
Methyl isobutyl ketone	4/4	(2)	4/4	3/0	4/4	4/4	(1)	(1)	(1)
Methyl isopropyl ketone	4/4	(2)	4/4	3/0	4/4	4/4	(1)	(1)	(1)
4. Acids (max. conc.)									
Nitric acid (1-10%)	1/2	4/4	2/4	2/0	1/1	4/4	3/4	1/1	1/1
Nitric acid (50%)	4/4	4/4	4/4	4/4	1/0	4/4	4/4	1/2	1/2
Nitric acid (66%)	4/4	4/4	4/4	4/4	1/0	4/4	4/4	1/2	1/2
Nitric acid (100%)	4/4	4/4	0/0	4/4	4/4	4/4	1/1	2/3	3/3
Nitric acid (70%)	4/4	4/4	4/4	4/4	2/3	4/4	4/4	1/2	1/2
Hydrochloric acid (1-5%)	1/1	4/4	1/1	1/0	1/1	3/4	4/4	4/4	4/4
Hydrochloric acid (35%)	4/4	4/4	3/3	3/0	1/2	4/4	4/4	4/4	4/4
Hydrochloric acid (conc.)	4/4	4/4	3/3	3/0	1/2	4/4	4/4	4/4	4/4
Hydrochloric acid (20%)	2/3	4/4	1/1	1/0	1/1	4/4	4/4	4/4	4/4
Phosphoric acid (30%)	1/0	4/4	1/1	1/0	1/1	3/3	4/4	1/3	1/2
Phosphoric acid (85%)	1/2	4/4	1/2	3/0	1/1	4/4	4/4	2/4	1/3
Phosphoric acid (1-5%)	1/1	(3)	2/2	1/0	1/1	2/3	(4)	1/1	1/1
Phosphoric acid (20%)	(2)	4/4	0/0	1/0	1/1	3/3	4/4	1/3	1/2
Sulfuric acid (40%)	2/0	4/4	2/0	(3)	1/1	4/4	3/4	2/3	2/3
Sulfuric acid (60%)	3/3	4/4	2/4	4/4	1/1	4/4	4/4	4/4	3/4
Sulfuric acid (80%)	3/4	4/4	3/4	4/4	1/1	4/4	4/4	2/4	2/3
Sulfuric acid (95%)	4/4	4/4	4/4	4/4	1/1	4/4	4/4	1/3	1/3
Sulfuric acid (fuming)	4/4	4/4	4/4	4/4	1/0	4/4	(3)	1/2	1/1
Sulfuric acid (1-6%)	1/1	4/4	1/2	1/0	1/1	3/0	(3)	2/2	1/2
Sulfuric acid (20%)	1/2	4/4	1/2	2/0	1/1	4/4	(3)	2/3	2/3
Citric acid (10%)	1/2	1/1	1/2	1/0	1/1	1/1	1/0	1/1	1/1
Citric acid (50%)	1/0	3/0	1/0	1/0	(1)	1/1	1/0	1/3	1/2
Citric acid (saturated)	1/0	3/0	1/1	1/0	(1)	1/1	1/0	1/3	1/2
Lactic acid (3%)	1/0	1/2	2/2	3/4	1/1	(2)	(1)	1/1	1/1
Lactic acid (80%)	0/0	1/2	1/1	3/4	1/1	1/4	1/0	1/3	1/2
Lactic acid (85%)	0/0	1/2	2/2	3/4	1/1	1/4	1/0	1/3	1/2
Acetic acid (50%)	1/2	4/4	2/2	4/4	4/4	4/4	1/3	1/1	1/1
Acetic acid (100%)	4/4	4/4	0/0	4/4	4/4	4/4	1/3	1/2	1/2
Acetic acid (90%)	4/4	4/4	4/4	4/4	4/4	4/4	1/3	1/2	1/2
Acetic acid (10%)	1/2	4/4	1/1	(2)	(3)	3/3	1/3	1/1	1/1
Acetic acid (5%)	1/2	4/4	1/1	1/0	3/3	3/3	1/3	1/2	1/1
Oleic acid (technically pure)	1/0	1/0	1/3	4/4	2/2	3/0	1/1	1/1	1/1

Chemical resistance:	Thermoplastics			Elastomers			Metals		
	Polycarbonate PC	Polyamide PA	Polystyrene PS	Ethylene- propylene Terpolymer EPDM	Ffuoro polymer (Viton) FPM/KFM	Nitrile rubber NBR	Aluminum Al	Stainless steel 1.4301 (AISI 304)	Stainless steel 1.4401 (AISI 316)
5. Bases									
Aniline	4/4	3/4	4/4	4/4	2/4	4/4	1/0	1/0	1/0
Sodium hydroxide solution (conc.)	4/4	1/3	0/0	1/0	4/4	3/4	4/4	(2)	1/3
Sodium hydroxide solution (30%)	4/4	1/0	1/0	1/0	(3)	2/3	4/4	1/3	1/3
Sodium hydroxide solution (45%)	4/4	1/0	1/1	1/0	2/4	2/3	4/4	1/3	1/3
Sodium hydroxide solution (50%)	4/4	1/0	2/2	1/0	3/4	3/3	4/4	1/3	1/3
Sodium hydroxide solution (60%)	4/4	1/0	1/0	1/0	3/4	2/3	4/4	1/3	1/3
Sodium hydroxide solution (41%)	4/4	1/0	2/2	1/0	1/1	1/3	(4)	1/1	1/1
Ammonium hydroxide	1/1	1/1	2/2	1/0	1/1	1/3	(4)	1/1	1/1
6. Halogens									
Bromine	4/4	4/4	4/4	4/4	(2-4)	4/4	(4)	4/4	4/4
Chlorine (10%) wet	2/3	4/4	4/4	2/0	3/0	4/4	4/4	4/4	4/4
Chlorine (97%)	4/4	4/4	4/4	4/4	1/1	4/4	(3)	1/0	1/0
Tincture of iodine	3/4	4/4	3/3	2/0	1/1	3/3	1/0	2/0L	1/0L
7. Oils, greases									
Soybean oil	(1)	(2)	0/0	4/4	1/1	1/0	(1)	1/1	1/1
Olive oil	(2)	(2)	1/1	4/4	1/1	1/1	1/1	1/1	1/1
Vegetable oils	(2)	0/0	0/0	4/4	1/0	1/0	(1)	1/1	1/1
8. Saline solutions									
Potassium carbonate, saturated	3/3	1/1	1/1	1/0	1/0	1/1	4/4	1/1	1/1
Calcium carbonate, aqueous	1/0	1/1	0/0	1/0	1/0	1/1	4/4	1/1	1/1
Sodium thiosulfate, any	(2)	1/0	0/0	1/0	1/0	3/3	1/1	1/1	1/1
Sodium thiosulfate, saturated	(1)	1/0	1/1	1/0	1/1	2/3	1/1	1/1	1/1
Sodium thiosulfate, aqueous	(1)	1/0	0/0	1/0	1/1	1/0	1/1	1/1	1/1
Sodium hypochlorite, diluted	(3)	4/4	1/3	3/0	1/3	4/4	4/4	3/3	L2/2L
Sodium hypochlorite (15%)	2/3	4/4	1/3	3/0	1/3	4/4	4/4	3/3L	2/2L
Sodium hypochlorite, saturated	2/3	4/4	1/3	3/0	1/3	4/4	4/4	3/3L	2/2L
Sodium hypochlorite (12.5%) CL	2/3	4/4	1/3	3/0	1/3	4/4	4/4	3/3L	2/2L
Sea water	1/1	1/0	1/1	1/1	1/1	1/1	3/4	1/3L	1/2L
9. Cleaning agents									
Soap solution, every	(2)	4/4	0/0	1/0	1/1	1/1	(3)	1/1	1/1
Washing detergent, e.g. Persil	1/0	1/1	0/0	1/0	1/1	(2)	1/1	1/1	1/1
Surfactants, wetting agents (5%)	(2)	(2)	0/0	(2)	(2)	(2)	0/0	K	K
10. Other media									
Diethyl ether, ethyl ether techn. pure	4/4	1/1	4/4	4/4	4/4	4/4	1/1	1/1	1/1
Urea, aqueous	1/1	1/0	0/0	1/0	1/1	1/1	1/1	1/0	1/0
Urea	1/1	1/0	1/2	1/0	1/1	1/1	1/1	1/0	1/0
Trichloroethylene, 100%	4/4	3/0	4/4	4/4	1/3	4/4	1/3	1/1L	1/1L
Hydrogen peroxide (30%)	4/4	1/2	1/2	3/0	1/1	4/4	(3)	1/1	1/1
Hydrogen peroxide (100%)	4/4	1/4	4/4	(3)	(2)	4/4	(3)	(1)	(1)
hydrogen peroxide (90%)	4/4	1/2	1/2	3/0	1/3	4/4	(3)	1/1	1/1
Hydrogen peroxide (3%)	(3)	1/1	1/2	1/0	1/0	4/4	(3)	1/1	1/1

LEGEND

No information available / no statement possible	0
Very good resistance / suitable	1
Good resistance / suitable	2
Limited resistance	3
Not resistant	4
No general information possible	K
Danger of pitting or stress cracking corrosion	L
Estimated value	()

Switching capacity and behavior in use

In countries where series II devices are used, the color orange is reserved for devices for 125/250 V~ and the color gray is reserved for devices for 277 V~.

In general, CEE plugs and sockets can be plugged and disconnected under load. However, interrupting the circuit can lead to a switch arc between the pin and sleeve. This can not only lead to an increased wear of the contacts, but also be a potential danger for people. That is why a pilot contact can optionally be provided for a current of 63 A or more. This is shorter than all the other contacts and thereby interrupts the system's control circuit first when pulled under load, ensuring the load is shut down. The load circuit is thus shut down before the contacts shut it down.

However, it is also possible to plug and pull the CEE plugs and sockets while the contacts are under voltage. The plugs and sockets also have sufficient switching capacity to be able to switch load currents. The checking here occurs according to the standard IEC/EN 60 309-1. The checking is carried out at 1.1-times the rated voltage, 1.25-times the rated current, the cos phi table 6, with a pull-off speed of 0.8 ± 0.1 m/s at 7.5 position changes per minute. After the checking, no further damage that impairs further use may be visible.

Switching capacity

Rated current A			Number of cycles		
Preferred rated values		Other rated values	AC		DC
Series I	Series II	Range	cos $\varphi \pm 0.05$	under load	under load
16	20	up to 29	0.6	50	50
32	30	30 to 59	0.6	50	50
63	60	60 to 99	0.6	20	20
125	100	100 to 199	0.7	20	20

Source: IEC/EN 60 309-1, table 6

Plugs and sockets that do not pass the check for switching capacity and behavior in use must have a locking mechanism. Locking mechanisms must interact with the controlgear so that the plug can neither be withdrawn from the socket or the coupler while the contacts remain under voltage nor inserted while the controlgear is switched on. You can distinguish between two versions:

1. Mechanical locking mechanism

Sockets with a switch. The control gear installed must at least have a switching capacity according to the use category AC 22 A IEC/EN 60 947-3 table 2. Sockets for direct voltage must be equipped with controlgear suitable for its use. CEEtyp wall sockets have a dual locking mechanism, which means the switch can only be inserted once the plug is inserted in the socket.

2. Electrical locking mechanism

The pre-mating/lagging pilot contact when connecting the plug for 63 A and when withdrawing the plug for 125 A actuates a controlgear, thereby preventing a connection or disconnection when voltage is present. The built-in controlgear must at least have the switching capacity of switching capacity-tested plugs and sockets and pass the "behavior in use."

Plugs and sockets must withstand the mechanical, electric and thermal stresses occurring during proper use without extraordinary wear or other harmful impacts. The checking occurs according to the standard IEC/EN 60 309-1, table 7. The checking is carried out at rated voltage and rated current:

Behavior in use

Rated current A			Number of cycles at 7.5 position changes per minute				
Preferred rated values		Other rated values	AC			DC Induction-free	
Series I	Series II	Range	cos $\varphi \pm 0.05$	under load	without load	under load	without load
16	20	up to 29	0.6	5000	-	5000	-
32	30	30 to 59	0.6	1000	1000	1000	1000
63	60	60 to 99	0.6	1000	1000	500	500
125	100	100 to 199	0.7	250	250	250	250

Source: IEC/EN 60 309-1, table 7

Power supply systems by type of ground connections

Extract from DIN VDE 0100-100:2009-06

The abbreviations used have the following meanings:

First letter:

Relation of the power supply system to the earth

- T** Direct connection of a point to the earth
- I** Either all active parts are separated from the earth or a point is connected to earth via a high impedance.

Second letter:




Relationship of body (from electric equipment) of the electrical system to earth:

- T** Direct electrical connection of the body (of electrical equipment) to earth, regardless of any existing earthing of a point of the supply system
- N** Direct electrical connection of the body (of electrical equipment) with the earthed point of the power supply system (in alternating current systems, the earthed point of the power supply system in general is the neutral point or, if a neutral point is not present, an external conductor)

Other letters (if present):

Arrangement of the neutral conductor and the protective conductor

- S** Protective function provided by a conductor separated from the neutral conductor or from the earthed external conductor
- C** Neutral conductor and protective conductor function, combined in a single conductor (PEN conductor)

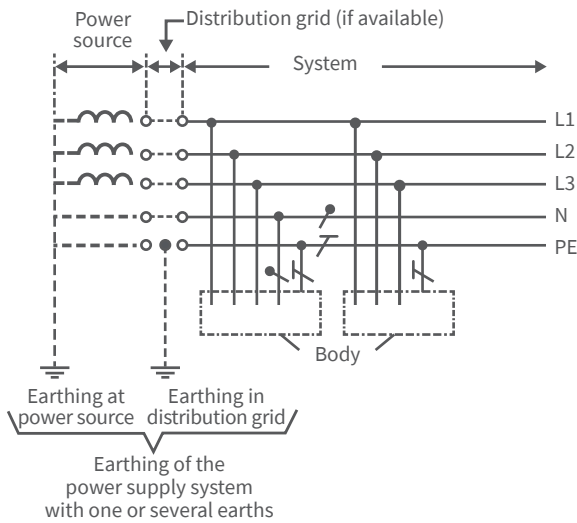
Explanation of symbols according to DIN EN 60617	
	Neutral conductor (N): mid-point conductor (M)
	Protective conductor (PE)
	Combined protective and neutral conductor (PEN)

Source: DIN / VDE 0100-100:2009-06

TN systems (3 different types)

In the TN supply system, a point is earthed directly. Electrical operating equipment of the electrical system is connected to this point via protective conductors.

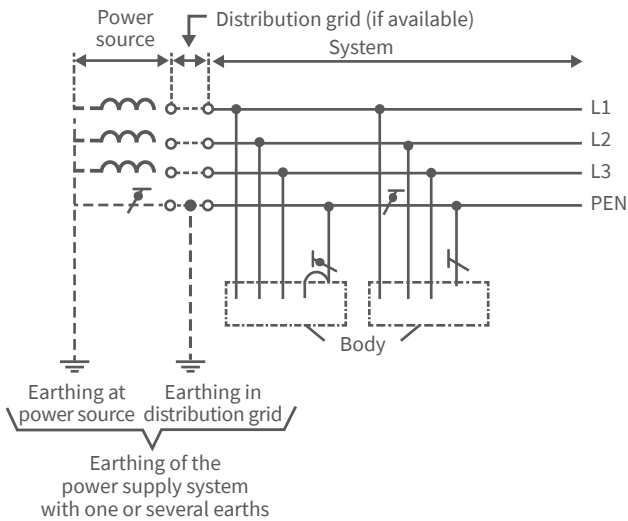
TN-S system



This type of grid is safer than the TN-C system.

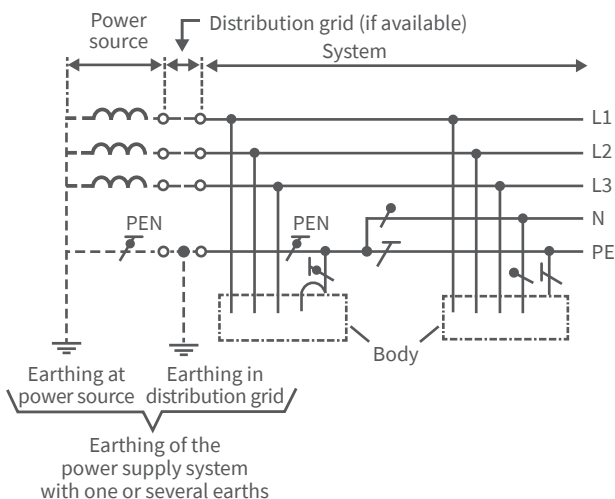
The problems that may result from an interrupted neutral conductor there do not occur here. The protective measure is still ensured here. However, it is not used too often.

TN-C systems



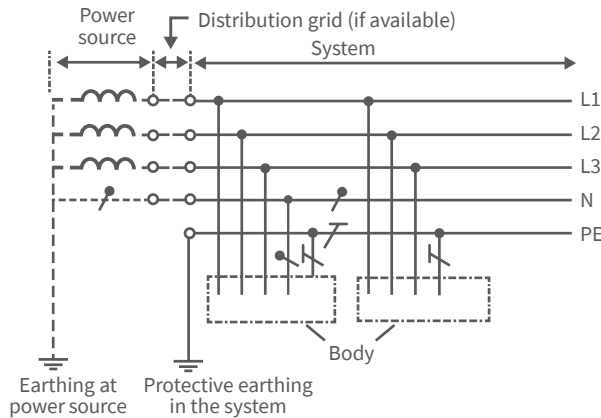
The TNC grid is the standard type of network for distributing electricity to the end consumer. It is realized at the last transformer that produces the 400 V level. Then it is routed to the meter panel in the domestic connection box, where it is separated into a TNS grid with separate new protective conductors.

TN-C-S systems



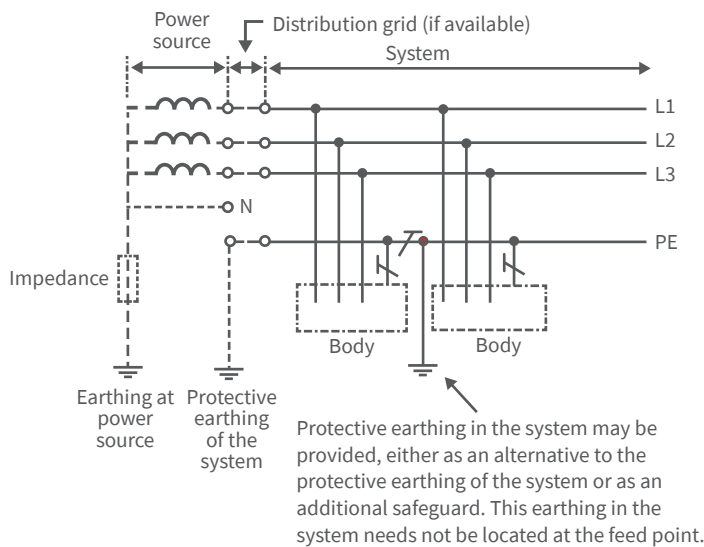
For example, this system is widely used for home power supply systems in Germany. The separation of protective conductors and neutral conductors usually occurs in the switch cabinet.

TT systems



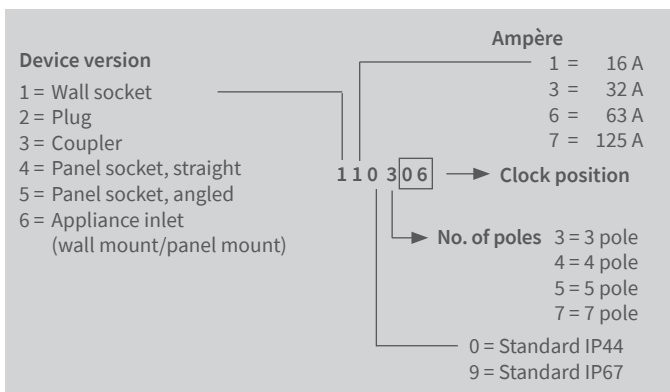
In the TT supply system, only one point is earthed directly and the electric operating equipment of the electrical system is connected with earths, which are independent of the earth electrodes of the supply system. The neutral conductor does not have a protective function. The consumer must have its own earthing system that can be used to realize the protective earthing. The earth transition resistances are therefore very low and difficult to reach. There is usually no reason for this effort. With trains, it often has to be operated to avoid feedback effects from the 162/3 Hz grid on the 50 Hz grid. The protective earthing protective measure is limited to 6-A circuits due to the problematic earthing conditions. If you want more powerful circuits, you must rely on the residual current protection circuit. The tripping current of the residual current circuit also depends on the earthing conditions.

IT system



In the IT supply system, all active parts are separated from the earth or a point is connected to earth via a high impedance. The electrical operating equipment of the electrical system is either earthed individually or earthed together or is connected together with the system earthing. For example, this type of grid is used in workshops to supply systems and vehicles to be repaired, since no accident occurs here in the event of the first fault. They are also used in hospitals and on ships because of their increased reliability. The three-phase current systems for auxiliary operations of Deutsche Bahn locomotives also work with an IT grid so that train travel can still be terminated in the event of a fault.

WALTHER item number system



The last 3 digits are omitted for standard devices in the 5-pole 6-h position design.

Other numbers are item-specific.

Approvals

A distinction is made between three different approval tests worldwide:

National test:

An electro-technical device is set up for testing in just one country and may only bear the test mark of the respective country after passing the test.

European test:

The national testing authorities of the European countries have founded a European Committee for Electrotechnical Standardization called CENELEC (Comité Européen de Normalisation Electrotechnique).

Compliant with the Low Voltage Directive: All member states are required to convert the standards (European Standards (EN)) developed from CENELEC into national standards without amendment. This applies to Belgium, Denmark, Germany, Finland, France, Greece, Ireland, Italy, Luxembourg, the Netherlands, Norway, Austria, Portugal, Sweden, Switzerland, Spain and the United Kingdom. Once the test has been passed according to EN standards in one of the aforementioned countries, a CCA test report is created that can be used in each country to apply for the corresponding national test mark.

Globally applicable test:

All countries in the world have an interest in producing goods that are as interchangeable as possible due to the close trade relations. This is why the IEC (IEC = International Electrotechnical Commission) was constituted. The commission develops IEC standards that countries that are members of the IEC use for testing. After the testing is passed, a CB test report is created that can also be used to apply for the national test mark.



Compliant with the
Low Voltage Directive

WALTHER products have the most important test marks worldwide.



USA



USA / Canada



Germany/Europe



China



Russia

General Conditions

for the supply of Products and Services of the Electrical and Electronics Industry | as of June 2011

Article I: General Provisions

1. Legal relations between Supplier and Purchaser in connection with supplies and/or Services of the Supplier (hereinafter referred to as „Supplies“) shall be solely governed by the present GL. The Purchaser's general terms and conditions shall apply only if expressly accepted by the Supplier in writing. The scope of delivery shall be determined by the congruent mutual written declarations.
2. The Supplier herewith reserves any industrial property rights and/or Copyrights pertaining to its cost estimates, drawings and other documents (hereinafter referred to as „Documents“). The Documents shall not be made accessible to third parties without the Supplier's prior consent and shall, upon request, be returned without undue delay to the Supplier if the contract is not awarded to the Supplier. Sentences 1 and 2 shall apply mutatis mutandis to the Purchaser's Documents; these may, however, be made accessible to those third parties to whom the Supplier has rightfully subcontracted Supplies.
3. The Purchaser has the non-exclusive right to use standard software and firmware, provided that it remains unchanged, is used within the agreed performance parameters, and on the agreed equipment. Without express agreement the Purchaser may make one back-up copy of standard software.
4. Partial deliveries are allowed, unless they are unreasonable to accept for the Purchaser.
5. The term „claim for damages“ used in the present GL also includes claims for indemnification for useless expenditure.
4. a) Purchaser may process, amalgamate or combine Retained Goods with other items. Processing is made for Supplier. Purchaser shall store the new item thus created for Supplier, exercising the due care of a diligent business person. The new items are considered as Retained Goods.
b) Already today, Supplier and Purchaser agree that if Retained Goods are combined or amalgamated with other items that are not the property of Supplier, Supplier shall acquire co-ownership in the new item in proportion of the value of the Retained Goods combined or amalgamated to the other items at the time of combination or amalgamation. In this respect, the new items are considered as Retained Goods.
c) The provisions on the assignment of claims according to No. 3 above shall also apply to the new item. The assignment, however, shall only apply to the amount corresponding to the value invoiced by Supplier for the Retained Goods that have been processed, combined or amalgamated.
d) Where Purchaser combines Retained Goods with real estate or movable goods, it shall, without any further declaration being necessary to this effect, also assign to Supplier as security its claim to consideration for the combination, including all collateral rights for the prorata amount of the value the combined Retained Goods have on the other combined items at the time of the combination.
5. Until further notice, Purchaser may collect assigned claims relating to the resale. Supplier is entitled to withdraw Purchaser's permission to collect funds for good reason, including, but not limited to delayed payment, suspension of payments, start of insolvency proceedings, protest or justified indications for overindebtedness or pending insolvency of Purchaser. In addition, Supplier may, upon expiry of an adequate period of notice disclose the assignment, realize the claims assigned and demand that Purchaser informs its customer of the assignment.

Article II: Prices, Terms of Payment, and Set-Off

1. Prices indicated in the trade price list are gross prices per unit in EURO ex works and exclude packaging; value added tax shall be added at the then applicable rate. We reserve the right to invoice prices as valid on the day of shipment.
2. Packaging will be charged at cost. Reusable boxes, frames etc. will be credited at two thirds of the invoiced amount by us in case of carriage paid return. According to law the German Supplier is associated with a packaging re-using system on the territory of the Federal Republic of Germany which disposes the packaging at the location of the commercial enterprises, agencies, manufacturers and craftsmen of the German electrical industry. The name of the disposal association is indicated on the packaging. The disposal system can be used by the German Purchaser. The Purchaser gets information on this system from the supplier.
3. Delivery dates will be fixed to the best knowledge, but are without guarantee. Any claims due to delays in delivery will not be accepted.
4. Payments have to be made in EURO within the agreed period free paying point of the supplier. Bank charges, especially for payments from foreign countries, have to be paid by the customer.
5. The Purchaser may set off only those claims that are undisputed or against which no legal recourse is possible.

Article III: Retention of Title

1. The items pertaining to the Supplies („Retained Goods“) shall remain the Supplier's property until each and every claim the Supplier has against the Purchaser on account of the business relationship has been fulfilled. If the combined value of the Supplier's security interests exceeds the value of all secured claims by more than 20 %, the Supplier shall release a corresponding part of the security interest if so requested by the Purchaser; the Supplier shall be entitled to choose which security interest it wishes to release.
2. For the duration of the retention of title, the Purchaser may not pledge the Retained Goods or use them as security, and resale shall be possible only for resellers in the ordinary course of their business and only on condition that the reseller receives payment from its customer or makes the transfer of property to the customer dependent upon the customer fulfilling its obligation to effect payment.
3. Should Purchaser resell Retained Goods, it assigns to the Supplier, already today, all claims it will have against its customers out of the resale, including any collateral rights and all balance claims, as security, without any subsequent declarations to this effect being necessary. If the Retained Goods are sold on together with other items and no individual price has been agreed with respect to the Retained Goods, Purchaser shall assign to the Supplier such fraction of the total price claim as is attributable to the price of the Retained Goods invoiced by Supplier.

Article IV: Time for Supplies; Delay

1. Times set for Supplies shall only be binding if all Documents to be furnished by the Purchaser, necessary permits and approvals, especially concerning plans, are received in time and if agreed terms of payment and other obligations of the Purchaser are fulfilled. If these conditions are not fulfilled in time, times set shall be extended reasonably; this shall not apply if the Supplier is responsible for the delay.
2. If non-observance of the times set is due to:
 - a) force majeure, such as mobilization, war, terror attacks, rebellion or similar events (e. g. strike or lockout);
 - b) virus attacks or other attacks on the Supplier's IT Systems occurring despite protective measures were in place that complied with the principles of proper care;
 - c) hindrances attributable to German, US or otherwise applicable national, EU or international rules of foreign trade law or to other circumstances for which Supplier is not responsible; or
 - d) the fact that Supplier does not receive its own supplies in due time or in due form such times shall be extended accordingly.
3. If the Supplier is responsible for the delay (hereinafter referred to as „Delay“) and the Purchaser has demonstrably suffered a loss therefrom, the Purchaser may claim a compensation as liquidated damages of 0.5 % for every completed week of Delay, but in no case more than a total of 5 % of the price of that part of the Supplies which due to the Delay could not be put to the intended use.

4. Purchaser's claims for damages due to delayed Supplies as well as claims for damages in lieu of performance exceeding the limits specified in No. 3 above are excluded in all cases of delayed Supplies, even upon expiry of a time set to the Supplier to effect the Supplies. This shall not apply in cases of liability based on intent, gross negligence, or due to loss of life, bodily injury or damage to health. Rescission of the contract by the Purchaser based on Statute is limited to cases where the Supplier is responsible for the delay. The above provisions do not imply a change in the burden of proof to the detriment of the Purchaser.
5. At the Supplier's request, the Purchaser shall declare within a reasonable period of time whether it, due to the delayed Supplies, rescinds the contract or insists on the delivery of the Supplies.
6. If dispatch or delivery, due to Purchaser's request, is delayed by more than one month after notification of the readiness for dispatch was given, the Purchaser may be charged, for every additional month commenced, storage costs of 0.5 % of the price of the items of the Supplies, but in no case more than a total of 5 %. The parties to the contract may prove that higher or, as the case may be, lower storage costs have been incurred.

Article V: Passing of Risk

1. Even where delivery has been agreed freight free, the risk shall pass to the Purchaser as follows:
 - a. if the delivery does not include assembly or erection, at the time when it is shipped or picked up by the carrier. Upon the Purchaser's request, the Supplier shall insure the delivery against the usual risks of transport at the Purchaser's expense;
 - b. if the delivery includes assembly or erection, at the day of taking over in the Purchaser's own works or, if so agreed, after a successful trial run.
2. The risk shall pass to the Purchaser if dispatch, delivery, the start or performance of assembly or erection, the taking over in the Purchaser's own works, or the trial run is delayed for reasons for which the Purchaser is responsible or if the Purchaser has otherwise failed to accept the Supplies.

Article VI: Assembly and Erection

Unless otherwise agreed in written form, assembly and erection shall be subject to the following provisions:

1. Purchaser shall provide at its own expense and in due time:
 - a) all earth and construction work and other ancillary work outside the Supplier's scope, including the necessary skilled and unskilled labor, construction materials and tools;
 - b) the equipment and materials necessary for assembly and commissioning such as scaffolds, lifting equipment and other devices as well as fuels and lubricants;
 - c) energy and water at the point of use including connections, heating and lighting;
 - d) suitable dry and lockable rooms of sufficient size adjacent to the site for the storage of machine parts, apparatus, materials, tools, etc. and adequate working and recreation rooms for the erection personnel, including sanitary facilities as are appropriate in the specific circumstances; furthermore, the Purchaser shall take all measures it would take for the protection of its own possessions to protect the possessions of the Supplier and of the erection personnel at the site;
 - e) protective clothing and protective devices needed due to particular conditions prevailing on the specific site.
2. Before the erection work starts, the Purchaser shall unsolicitedly make available any information required concerning the location of concealed electric power, gas and water lines or of similar installations as well as the necessary structural data.
3. Prior to assembly or erection, the materials and equipment necessary for the work to start must be available on the site of assembly or erection and any preparatory work must have advanced to such a degree that assembly or erection can be started as agreed and carried out without interruption. Access roads and the site of assembly or erection must be level and clear.
4. If assembly, erection or commissioning is delayed due to circumstances for which the Supplier is not responsible, the Purchaser shall bear the reasonable costs incurred for idle times and any additional traveling expenditure of the Supplier or the erection personnel»
5. The Purchaser shall attest to the hours worked by the erection personnel towards the Supplier at weekly intervals and the Purchaser shall immediately confirm in written form if assembly, erection or commissioning has been completed.
6. If, after completion, the Supplier demands acceptance of the Supplies, the Purchaser shall comply therewith within a period of two weeks. The same consequences as

upon acceptance arise if and when the Purchaser lets the two-week period expire or the Supplies are put to use after completion of agreed test phases, if any.

7. Article VII: Special Custom-Made Products

CEEtyp Socket Combinations, Assemblies for Construction Sites, Power Distributors for Camping Sites, Fairgrounds and Market Places, Compact Transformer Stations, as well as Charging Stations (E-Station) and Wall boxes (E-BoxX) are special products, customized according to the Customer's request. Returns are generally excluded.

Article VIII: Receiving Supplies

The Purchaser shall not refuse to receive Supplies due to minor defects.

Article IX: Defects as to Quality

The Supplier shall be liable for defects as to quality („Sachmängel“, hereinafter referred to as „Defects“) as follows:

1. Defective parts or defective services shall be, at the Supplier's discretion, repaired, replaced or provided again free of Charge, provided that the reason for the Defect had already existed at the time when the risk passed.
2. Claims for repair or replacement are subject to a statute of limitations of 12 months calculated from the start of the statutory statute of limitations; the same shall apply mutatis mutandis in the case of rescission and reduction. This shall not apply where longer periods are prescribed by law according to Sec. 438 para. 1 No. 2 (buildings and things used for a building). Sec. 479 para. 1 (right of recourse), and Sec. 634a para. 1 No. 2 (defects of a building) German Civil Code („Bürgerliches Gesetzbuch“), in the case of intent, fraudulent concealment of the Defect or non-compliance with guaranteed characteristics („Beschaffenheitsgarantie“). The legal provisions regarding suspension of the statute of limitations („Ablaufhemmung“, „Hemmung“) and recommencement of limitation periods shall be unaffected.
3. Notifications of Defect by the Purchaser shall be given in written form without undue delay.
4. In the case of notification of a Defect, the Purchaser may withhold payments to an amount that is in a reasonable Proportion to the Defect. The Purchaser, however, may withhold payments only if the subject-matter of the notification of the Defect involved is justified and incontestable. The Purchaser has no right to withhold payments to the extent that its claim of a Defect is time-barred. Unjustified notifications of Defect shall entitle the Supplier to demand reimbursement of its expenses by the Purchaser.
5. The Supplier shall be given the opportunity to repair or to replace the defective good („Nacherfüllung“) within a reasonable period of time.
6. If repair or replacement is unsuccessful, the Purchaser is entitled to rescind the contract or reduce the remuneration; any claims for damages the Purchaser may have according to No. 10 shall be unaffected.
7. There shall be no claims based on Defect in cases of insignificant deviations from the agreed quality, of only minor impairment of usability, of natural wear and tear, or damage arising after the passing of risk from faulty or negligent handling, excessive strain, unsuitable equipment, defective civil works, inappropriate foundation soil, or claims based on particular external influences not assumed under the contract, or from non-reproducible Software errors. Claims based on defects attributable to improper modifications or repair work carried out by the Purchaser or third parties and the consequences thereof are likewise excluded.
8. The Purchaser shall have no claim with respect to expenses incurred in the course of supplementary performance, including costs of travel, transport, labor, and material, to the extent that expenses are increased because the subject-matter of the Supplies has subsequently been brought to another location than the Purchaser's branch office, unless doing so complies with the normal use of the Supplies.
9. The Purchaser's right of recourse against the Supplier pursuant to Sec. 478 BGB is limited to cases where the Purchaser has not concluded an agreement with its customers exceeding the scope of the statutory provisions governing claims based on Defects. Moreover, No. 8 above shall apply mutatis mutandis to the scope of the right of recourse the Purchaser has against the Supplier pursuant to Sec. 478 para. 2 BGB.
10. The Purchaser shall have no claim for damages based on Defects. This shall not apply to the extent that a Defect has been fraudulently concealed, the guaranteed characteristics are not complied with, in the case of loss of life, bodily injury or damage to health, and/or intentionally or grossly negligent breach of contract on the part of the Supplier. The above provisions do not imply a change in the burden of proof to the detriment of the Purchaser. Any other or additional claims of the Purchaser exceeding the claims provided for in this Article VIII, based on a Defect, are excluded.

**Article X: Industrial Property Rights and Copyrights;
Defects in Title**

1. Unless otherwise agreed, the Supplier shall provide the Supplies free from third parties' industrial property rights and copyrights (hereinafter referred to as „IPR“) with respect to the country of the place of delivery only. If a third party asserts a justified claim against the Purchaser based on an infringement of an IPR by the Supplies made by the Supplier and used in conformity with the contract, the Supplier shall be liable to the Purchaser within the time period stipulated in Article VIII No. 2 as follows:
 - a) The Supplier shall choose whether to acquire, at its own expense, the right to use the IPR with respect to the Supplies concerned or whether to modify the Supplies such that they no longer infringe the IPR or replace them. If this would be impossible for the Supplier under reasonable conditions, the Purchaser may rescind the contract or reduce the remuneration pursuant to the applicable statutory provisions;
 - b) The Supplier's liability to pay damages is governed by Article XII;
 - c) The above obligations of the Supplier shall apply only if the Purchaser (i) immediately notifies the Supplier of any such claim asserted by the third party in written form, (ii) does not concede the existence of an infringement and (iii) leaves any protective measures and settlement negotiations to the Supplier's discretion. If the Purchaser stops using the Supplies in order to reduce the damage or for other good reason, it shall be obliged to point out to the third party that no acknowledgement of the alleged infringement may be inferred from the fact that the use has been discontinued.
2. Claims of Purchaser shall be excluded if it is responsible for the infringement of an IPR.
3. Claims of the Purchaser are also excluded if the infringement of the IPR is caused by specifications made by the Purchaser, by a type of use not foreseeable by the Supplier or by the Supplies being modified by the Purchaser or being used together with products not provided by the Supplier.
4. In addition, with respect to claims by the Purchaser pursuant to No. 1 a) above, Article VIII Nos. 4, 5, and 9 shall apply mutatis mutandis in the event of an infringement of an IPR.
5. Where other defects in title occur, Article XIII shall apply mutatis mutandis.
6. Any other claims of the Purchaser against the Supplier or its agents or any such claims exceeding the claims provided for in this Article IX, based on a defect in title, are excluded.

Article XI: Conditional Performance

1. The performance of this contract is conditional upon that no hindrances attributable to German, US or otherwise applicable national, EU or international rules of foreign trade law or any embargos or other sanctions exist.
2. The Purchaser shall provide any information and Documents required for export, transport and import purposes.

Article XII: Impossibility of Performance; Adaptation of Contract

1. To the extent that delivery is impossible, the Purchaser is entitled to claim damages, unless the Supplier is not responsible for the impossibility. The Purchaser's claim for damages is, however, limited to an amount of 10% of the value of the part of the Supplies which, owing to the impossibility, cannot be put to the intended use. This limitation shall not apply in the case of liability based on intent, gross negligence or loss of life, bodily injury or damage to health; this does not imply a change in the burden of proof to the detriment of the Purchaser. The Purchaser's right to rescind the contract shall be unaffected.
2. Where events within the meaning of Article IV No. 2 (a) to (c) substantially change the economic importance or the contents of the Supplies or considerably affect the Supplier's business, the contract shall be adapted taking into account the principles of reasonableness and good faith. To the extent this is not justifiable for economic reasons, the Supplier shall have the right to rescind the contract. The same applies if required export permits are not granted or cannot be used. If the Supplier intends to exercise its right to rescind the contract, it shall notify the Purchaser thereof without undue delay after having realized the repercussions of the event; this shall also apply even where an extension of the delivery period has previously been agreed with the Purchaser.

Article XIII: Other Claims for Damages

1. Unless otherwise provided for in the present GL, the Purchaser has no claim for damages based on whatever legal reason, including infringement of duties arising in connection with the contract or tort.

2. This does not apply if liability is based on:
 - a. the German Product Liability Act ('Produkthaftungsgesetz');
 - b. intent;
 - c. gross negligence on the part of the owners, legal representatives or executives;
 - d. fraud;
 - e. failure to comply with a guarantee granted;
 - f. negligent injury to life, limb or health; or
 - g. negligent breach of a fundamental condition of contract ('wesentliche Vertragspflichten').However, claims for damages arising from a breach of a fundamental condition of contract shall be limited to the foreseeable damage which is intrinsic to the contract, provided that no other of the above case applies.
3. The above provision does not imply a change in the burden of proof to the detriment of the Purchaser.

Article XIV: Venue and Applicable law

1. If the Purchaser is a businessman, sole venue for all disputes arising directly or indirectly out of the contract shall be the Supplier's place of business. However, the Supplier may also bring an action at the Purchaser's place of business.
2. This contract and its interpretation shall be governed by German law, to the exclusion of the United Nations Convention on contracts for the International Sale of Goods (CISG).

Article XV: Severability Clause

The legal invalidity of one or more provisions of this Agreement in no way affects the validity of the remaining provisions. This shall not apply if it would be unreasonably onerous for one of the parties to be obligated to continue the contract.

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